

Data Path : W:\HPCHEM1\MSVOA L\DATA\VL041918\
 Data File : VL031899.D
 Acq On : 20 Apr 2018 14:32
 Operator : SY/AP
 Sample : VSTDCCC010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleID :
 VSTDCCC010EC

Manual Integrations
 APPROVED

sam
 4/23/2018 12:50:54 PM

Quant Time: Apr 21 03:21:08 2018
 Quant Method : W:\HPCHEM1\MSVOA L\METHODS\VL041218AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Apr 13 16:50:02 2018
 QLast Update : Fri Apr 13 16:50:02 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.88	49	1232329	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.43	114	2821835	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.39	117	2966466m	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.72	95	2327620	9.76	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	97.60%

Target Compounds						Ovalue
2) Dichlorodifluoromethane	3.16	85	2090654	8.23	ppbv	100
3) Chlorodifluoromethane	3.10	51	1359584	9.49	ppbv	100
4) Chloromethane	3.26	50	701727	9.59	ppbv	95
5) Vinyl Chloride	3.38	62	732844	8.90	ppbv	100
6) Bromomethane	3.60	94	515109	9.51	ppbv	99
7) Chloroethane	3.69	64	316756	9.64	ppbv	91
8) Dichlorotetrafluoroethane	3.31	85	1873456	8.98	ppbv	100
9) Propene	3.12	41	506124	10.21	ppbv	100
10) Heptane	8.39	43	1682015	10.46	ppbv	100
11) Trichlorofluoromethane	4.11	101	2285234	9.17	ppbv	100
12) 1,1,2-Trichlorotrifluoroet	4.66	101	1402162	8.66	ppbv	100
13) Ethanol	3.75	45	148240	8.81	ppbv	99
14) Bromoethene	3.88	108	580349	9.50	ppbv	99
15) Acetone	4.00	43	1485705	7.83	ppbv	99
16) 1,3-Butadiene	3.45	39	709745	10.11	ppbv	98
17) tert-Butyl alcohol	4.46	59	720472	9.19	ppbv	99
18) 1,1-Dichloroethene	4.46	96	635266	9.13	ppbv	94
19) Isopropyl Alcohol	4.12	45	1006663	9.50	ppbv	99
20) Methylene Chloride	4.51	84	596292	8.63	ppbv	99
21) Allyl Chloride	4.59	41	1013489	9.35	ppbv	99
22) trans-1,2-Dichloroethene	5.08	96	666308	9.24	ppbv	94
23) Vinyl Acetate	5.27	43	1934788	10.06	ppbv	99
24) 1,1-Dichloroethane	5.21	63	1715916	8.96	ppbv	99
25) Ethyl Acetate	5.89	43	2836407	9.59	ppbv	100
26) Hexane	5.90	57	1344929	9.75	ppbv	100
27) Carbon Disulfide	4.73	76	1795910	10.03	ppbv	99
28) Methyl tert-Butyl Ether	5.23	73	1597072	9.41	ppbv	99
29) Chloroform	5.97	83	2139080	9.15	ppbv	100
30) Cyclohexane	7.38	84	1024512	10.40	ppbv	99
31) cis-1,2-Dichloroethene	5.76	61	1267062	10.14	ppbv	99
32) 1,1,1-Trichloroethane	6.75	97	2110617	9.27	ppbv	100
34) 2-Butanone	5.44	43	1721839	8.80	ppbv	99
35) Carbon Tetrachloride	7.27	117	2201128	8.98	ppbv	99
36) Benzene	7.14	78	2531499	9.97	ppbv	98
37) 1,2-Dichloroethane	6.54	62	1790943	9.48	ppbv	100
38) Trichloroethene	8.10	130	1025249	9.95	ppbv	98
39) 1,2-Dichloropropane	7.87	63	907988	9.62	ppbv	98
40) 1,4-Dioxane	8.09	88	378915	9.89	ppbv	89
41) Tetrahydrofuran	6.27	42	905316	9.99	ppbv	99
42) Bromodichloromethane	8.06	83	2221117	9.83	ppbv	98
43) Methyl Methacrylate	8.27	69	949254	10.63	ppbv	100

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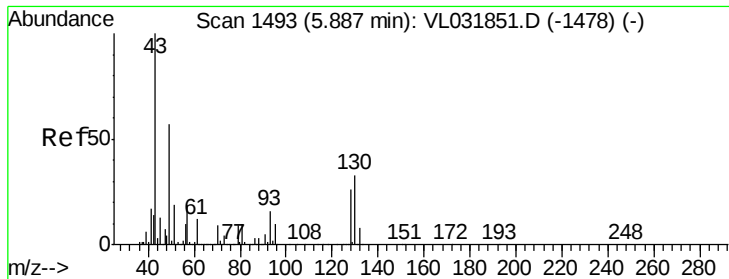
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Quant Time: Apr 21 03:21:08 2018
 Quant Method : W:\HPCHEM1\MSVOA L\METHODS\VL041218AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Apr 13 2018
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	8.13	57	4294760	9.82	ppbv	99
45) t-1,3-Dichloropropene	9.56	75	1341540	11.58	ppbv	99
46) cis-1,3-Dichloropropene	8.98	75	1661009	11.22	ppbv	95
47) 1,1,2-Trichloroethane	9.76	97	1077118	9.61	ppbv	96
48) Dibromochloromethane	10.60	129	1825142	10.07	ppbv	99
49) Bromoform	13.35	173	1416841	10.15	ppbv	99
50) 4-Methyl-2-Pentanone	9.01	43	2278242	10.17	ppbv	100
51) 2-Hexanone	10.41	43	2128950	10.87	ppbv #	100
52) Tetrachloroethene	11.52	164	959285	9.70	ppbv	97
53) Toluene	10.09	91	3028762	10.70	ppbv	100
54) 1,2-Dibromoethane	10.91	107	1636757	10.06	ppbv	99
56) 1,1,1,2-Tetrachloroethane	12.43	131	1259787	9.02	ppbv	98
57) Chlorobenzene	12.45	112	2347040	9.33	ppbv	99
58) Ethyl Benzene	13.01	91	4229454	10.27	ppbv	99
59) m/p-Xylene	13.30	91	6945031m	19.42	ppbv	
60) o-Xylene	14.00	91	3609741	10.10	ppbv	99
61) Styrene	13.83	104	812689	11.94	ppbv	99
62) Isopropylbenzene	14.97	105	4373650	9.52	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.98	83	2281932	8.30	ppbv	99
64) n-propylbenzene	15.87	120	1086096	9.73	ppbv	99
65) tert-Butylbenzene	17.05	119	3611481	9.14	ppbv	100
66) Benzyl Chloride	17.30	91	356683	10.02	ppbv	99
67) sec-Butylbenzene	17.61	105	5144789	9.04	ppbv	100
69) p-Isopropyltoluene	17.96	119	4058245	9.20	ppbv	99
70) n-Butylbenzene	18.86	91	4054435	8.83	ppbv	100
71) 2-Chlorotoluene	15.76	91	3252106	9.79	ppbv	99
72) 4-Ethyltoluene	16.15	105	3564390	9.75	ppbv	100
73) 1,3,5-Trimethylbenzene	16.30	105	3131507	9.36	ppbv	99
74) 1,2,4-Trimethylbenzene	17.07	105	3283473	8.79	ppbv	98
75) 1,3-Dichlorobenzene	17.31	146	2001594	8.74	ppbv	99
76) 1,4-Dichlorobenzene	17.46	146	2017746	9.08	ppbv	99
77) 1,2-Dichlorobenzene	18.14	146	1923877	8.53	ppbv	100
78) Hexachloro-1,3-Butadiene	23.68	225	1036943	11.98	ppbv	99
79) Naphthalene	22.58	128	2227037	10.60	ppbv	99
80) Naphthalene, 2-methyl-	25.23	142	655812	15.99	ppbv	99
81) 1,2,4-Trichlorobenzene	22.31	180	1101672	9.45	ppbv	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed



#1

Bromochloromethane

Concen: 10.00 ppbv

RT: 5.88 min Scan# 1492

Delta R.T. -0.01 min

Lab File: VL031899.D

Acq: 20 Apr 2018 14:32

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 49 Resp: 1232329

Ion Ratio Lower Upper

49 100

128 47.9 23.9 71.7

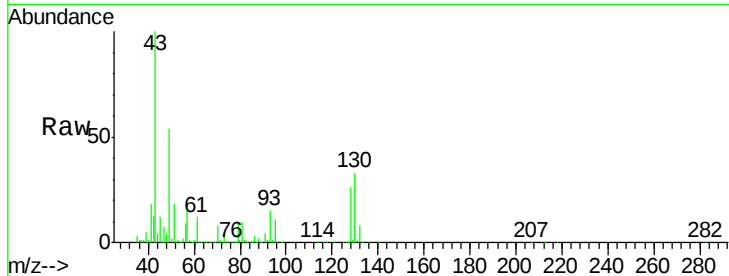
130 61.4 30.9 92.7

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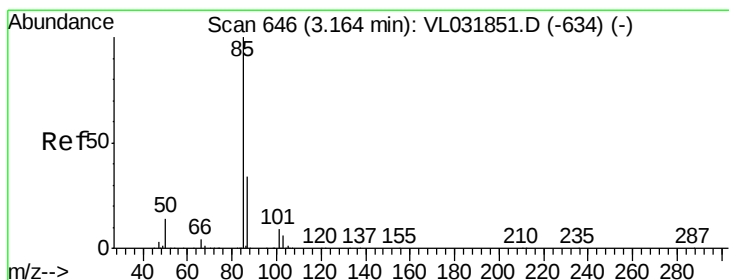
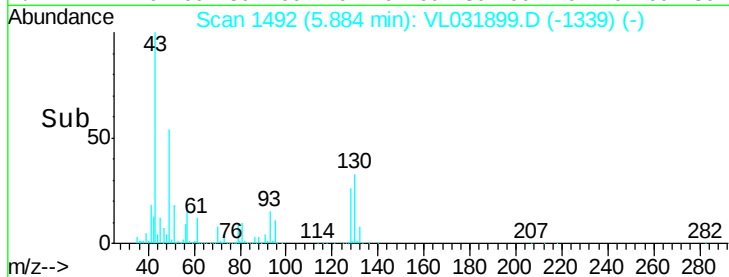
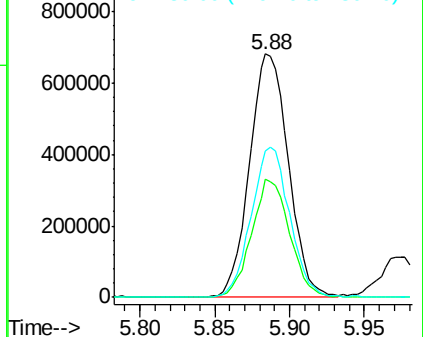
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Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0



#2

Dichlorodifluoromethane

Concen: 8.23 ppbv

RT: 3.16 min Scan# 645

Delta R.T. -0.00 min

Lab File: VL031899.D

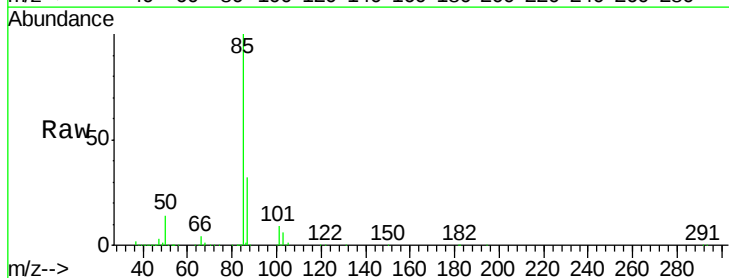
Acq: 20 Apr 2018 14:32

Tgt Ion: 85 Resp: 2090654

Ion Ratio Lower Upper

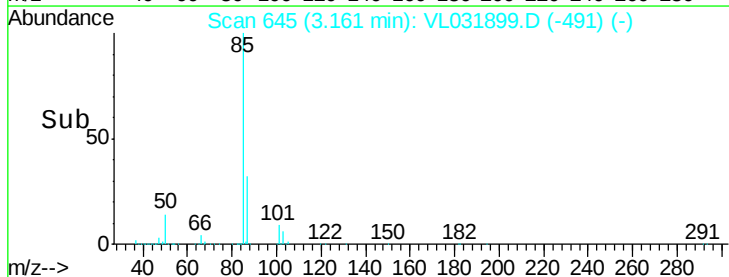
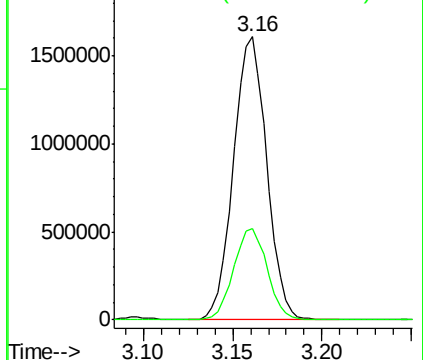
85 100

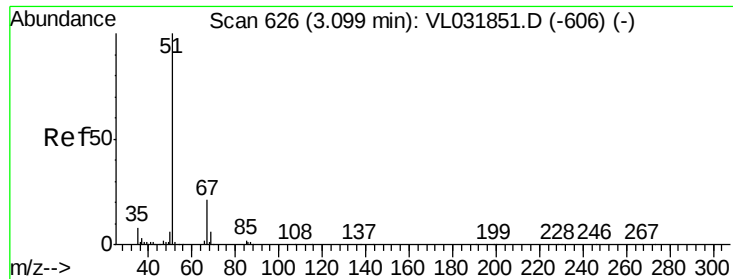
87 32.2 25.9 38.9



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 9.49 ppbv

RT: 3.10 min Scan# 625

Delta R.T. -0.00 min

Lab File: VL031899.D

Acq: 20 Apr 2018 14:32

Tot Ion: 51 Resp: 1359584

Ion Ratio Lower Upper

51 100

67 21.7 17.5 26.3

Instrument :

MSVOA_L

ClientSampleId :

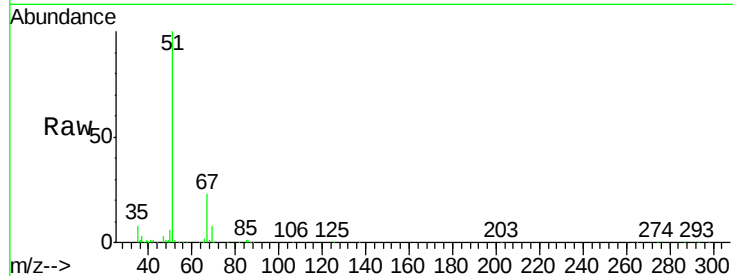
VSTDCCC010EC

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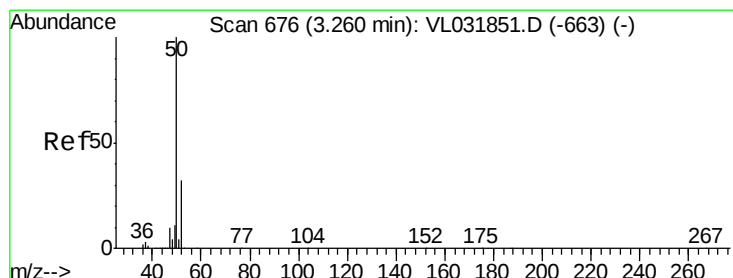
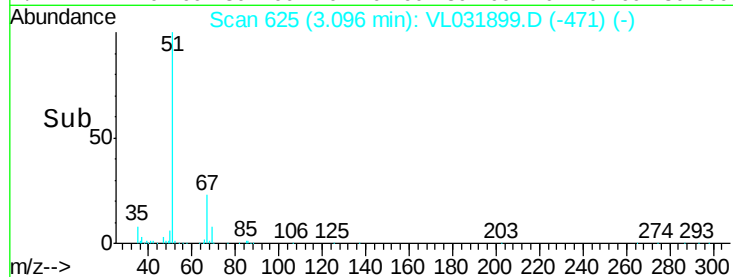
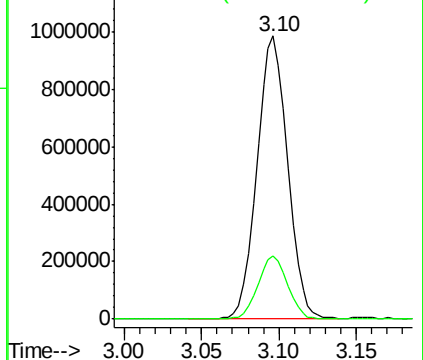
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Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 9.59 ppbv

RT: 3.26 min Scan# 675

Delta R.T. -0.00 min

Lab File: VL031899.D

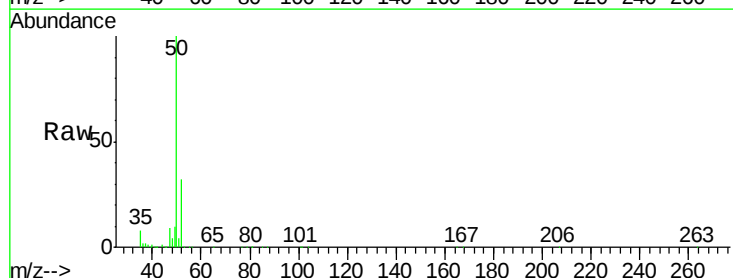
Acq: 20 Apr 2018 14:32

Tgt Ion: 50 Resp: 701727

Ion Ratio Lower Upper

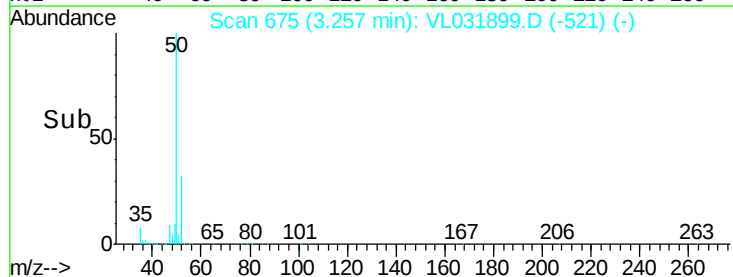
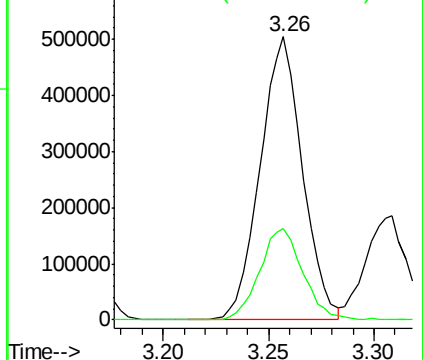
50 100

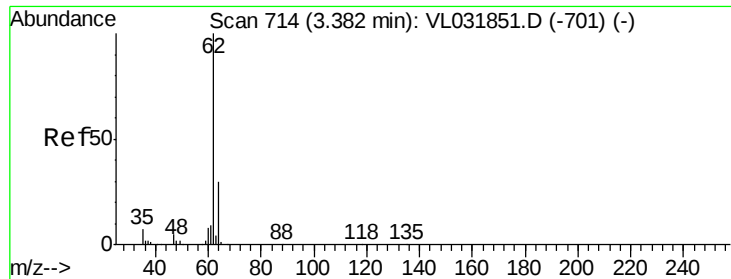
52 32.1 28.1 42.1



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#5

Vinyl Chloride

Concen: 8.90 ppbv

RT: 3.38 min Scan# 713

Delta R.T. -0.00 min

Lab File: VL031899.D

Acq: 20 Apr 2018 14:32

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 62 Resp: 732844

Ion Ratio Lower Upper

62 100

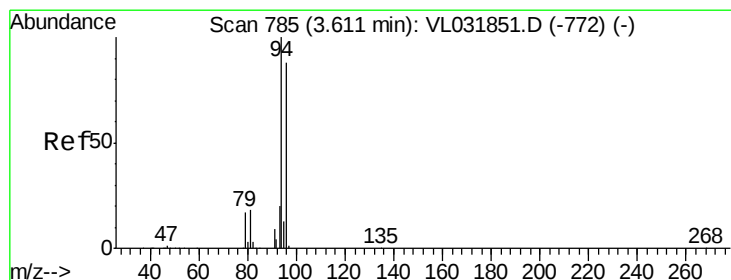
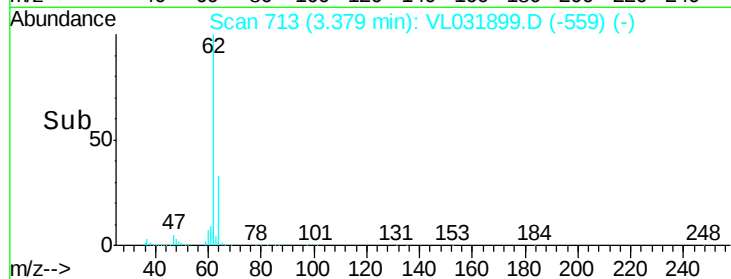
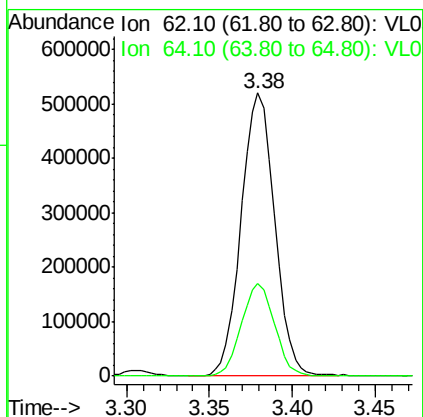
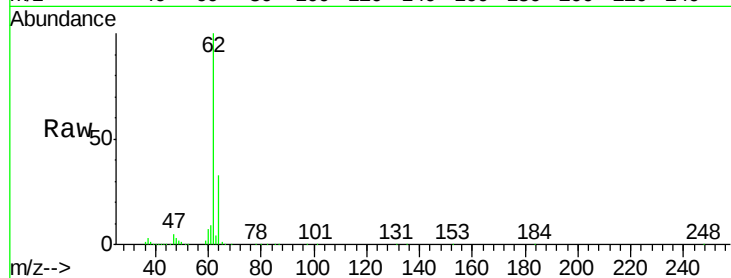
64 32.6 25.9 38.9

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#6

Bromomethane

Concen: 9.51 ppbv

RT: 3.60 min Scan# 783

Delta R.T. -0.01 min

Lab File: VL031899.D

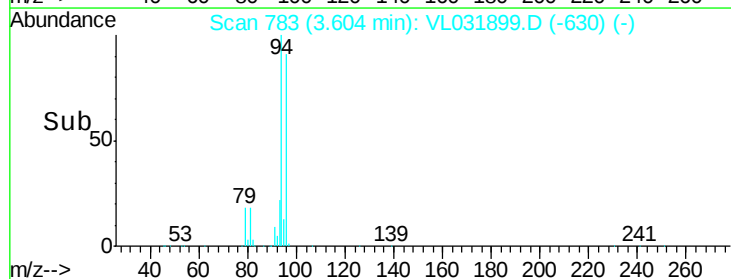
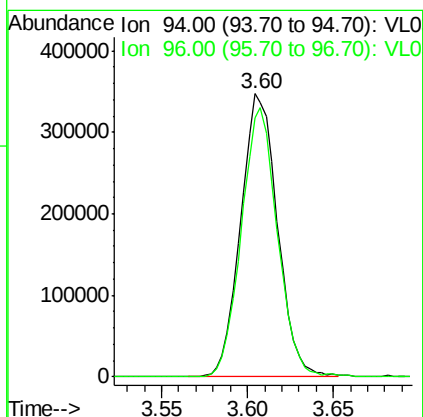
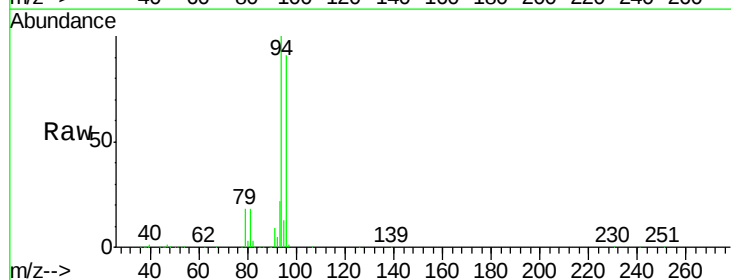
Acq: 20 Apr 2018 14:32

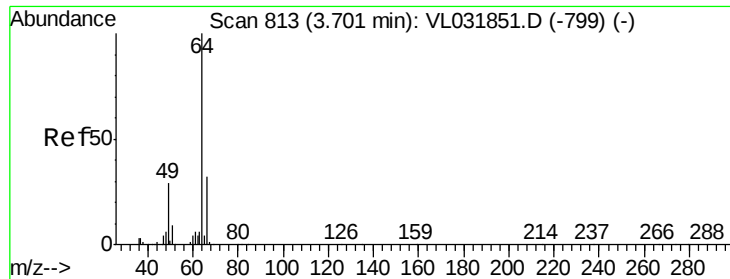
Tgt Ion: 94 Resp: 515109

Ion Ratio Lower Upper

94 100

96 91.5 73.8 110.6





#7

Chloroethane

Concen: 9.64 ppbv

RT: 3.69 min Scan# 811

Delta R.T. -0.00 min

Lab File: VL031899.D

Acq: 20 Apr 2018 14:32

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 64 Resp: 316756

Ion Ratio Lower Upper

64 100

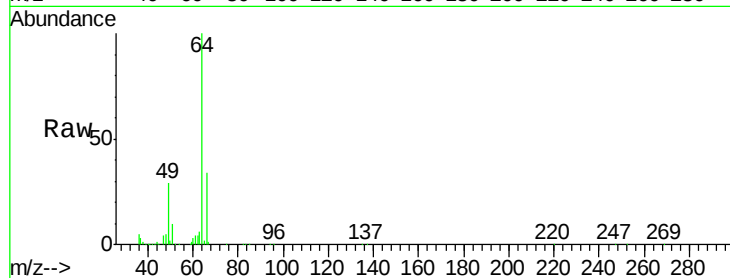
66 34.1 23.4 35.0

Manual Integrations

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Abundance Ion 64.10 (63.80 to 64.80): VL0

Ion 66.10 (65.80 to 66.80): VL0

3.69

250000

200000

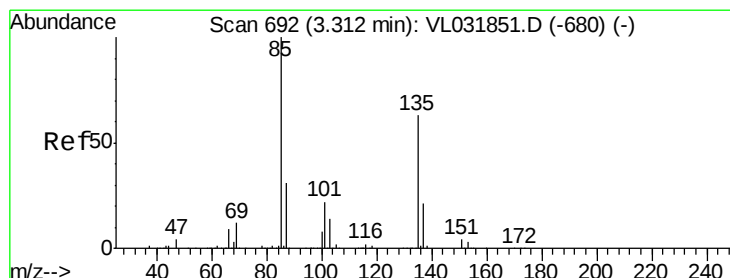
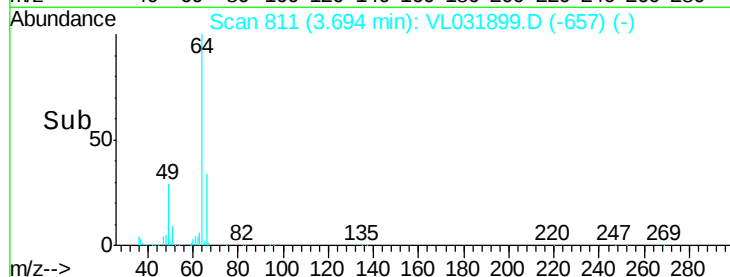
150000

100000

50000

0

Time-->



#8

Dichlorotetrafluoroethane

Concen: 8.98 ppbv

RT: 3.31 min Scan# 690

Delta R.T. -0.01 min

Lab File: VL031899.D

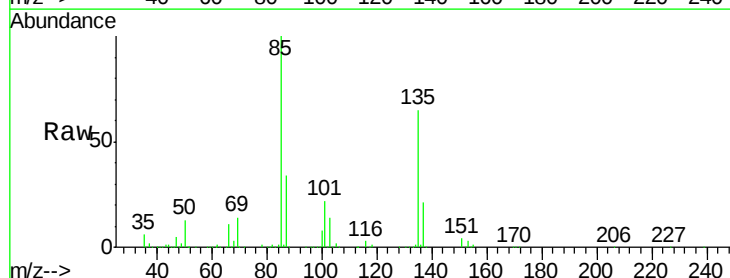
Acq: 20 Apr 2018 14:32

Tgt Ion: 85 Resp: 1873456

Ion Ratio Lower Upper

85 100

135 65.6 52.7 79.1



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 135.00 (134.70 to 135.70): V

3.31

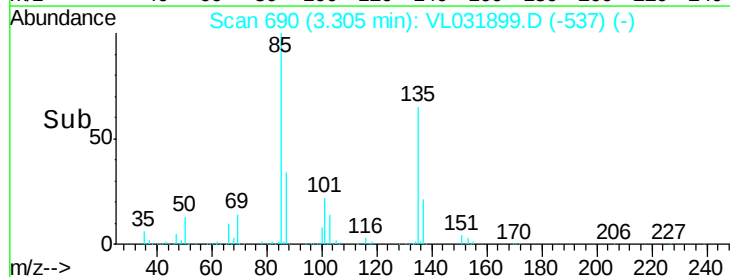
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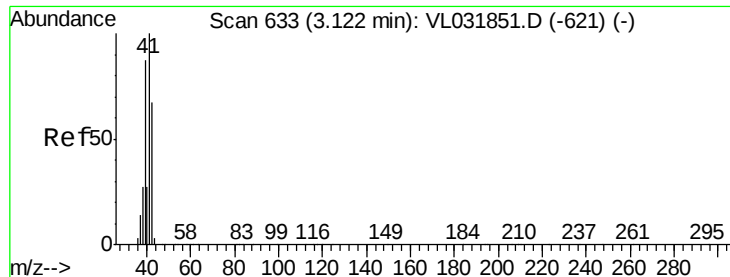
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Time-->





#9

Propene

Concen: 10.21 ppbv

RT: 3.12 min Scan# 632

Delta R.T. -0.00 min

Lab File: VL031899.D

Acq: 20 Apr 2018 14:32

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 41 Resp: 506124

Ion Ratio Lower Upper

41 100

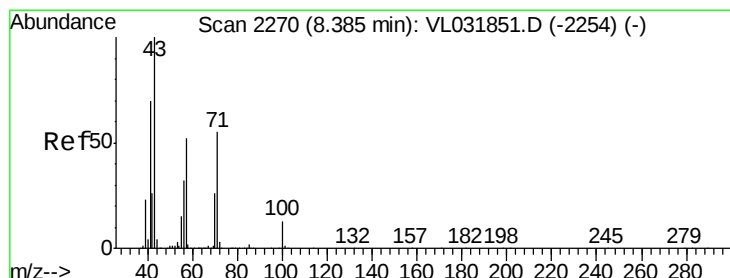
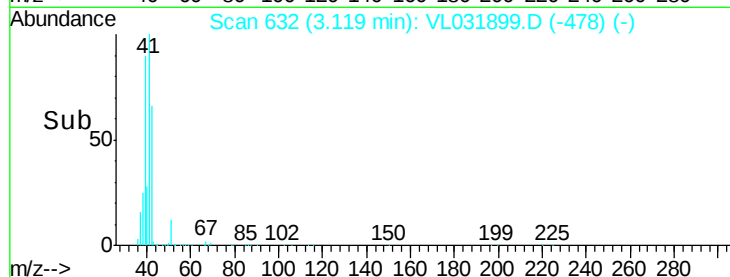
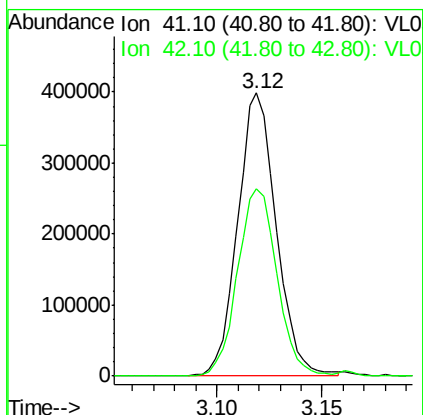
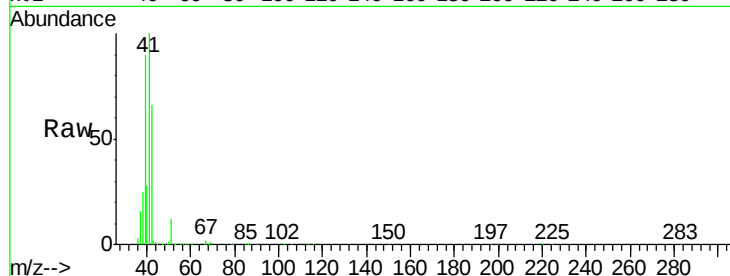
42 68.9 55.0 82.4

Manual Integrations

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#10

Heptane

Concen: 10.46 ppbv

RT: 8.39 min Scan# 2270

Delta R.T. -0.00 min

Lab File: VL031899.D

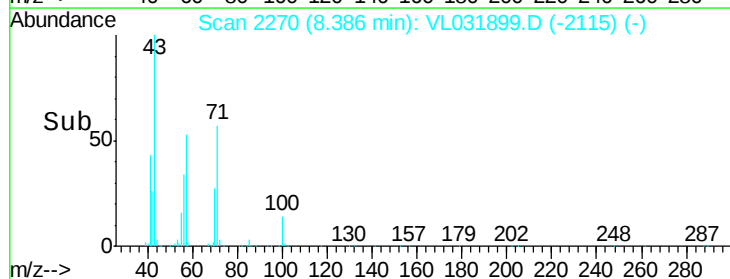
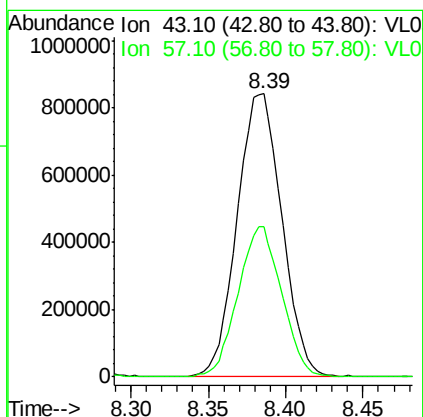
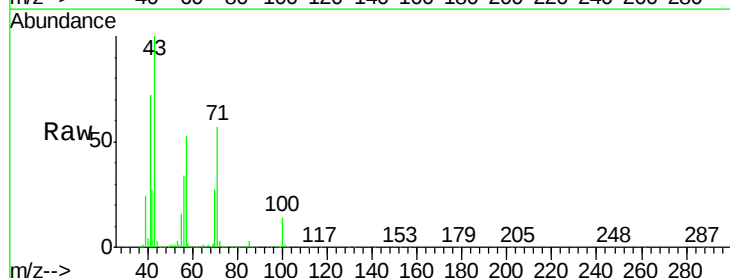
Acq: 20 Apr 2018 14:32

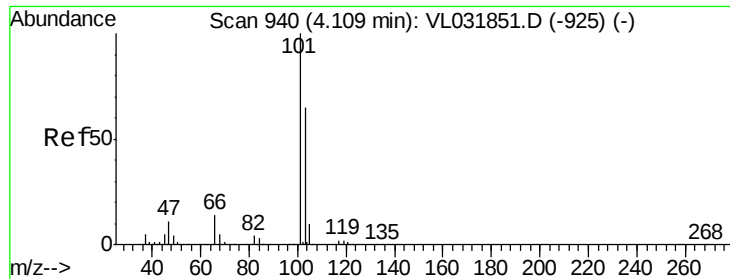
Tgt Ion: 43 Resp: 1682015

Ion Ratio Lower Upper

43 100

57 52.2 41.5 62.3





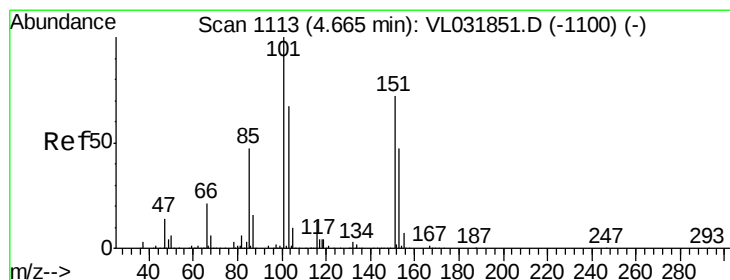
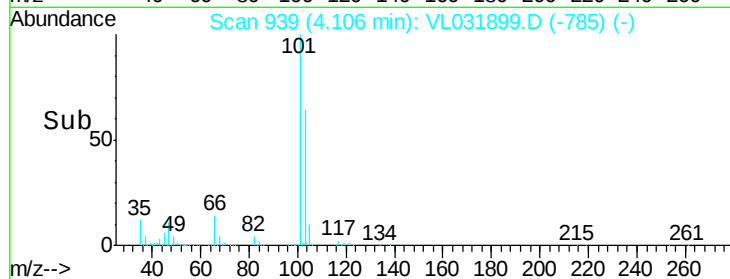
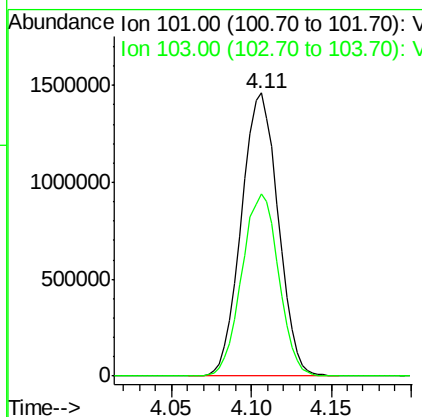
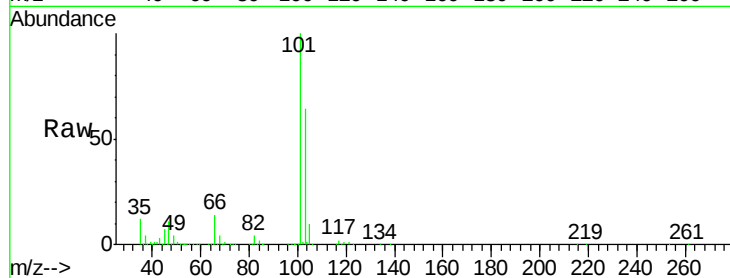
#11
 Trichlorofluoromethane
 Concen: 9.17 ppbv
 RT: 4.11 min Scan# 939
 Delta R.T. -0.00 min
 Lab File: VL031899.D
 Acq: 20 Apr 2018 14:32

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion:101 Resp: 2285234
 Ion Ratio Lower Upper
 101 100
 103 64.5 51.8 77.8

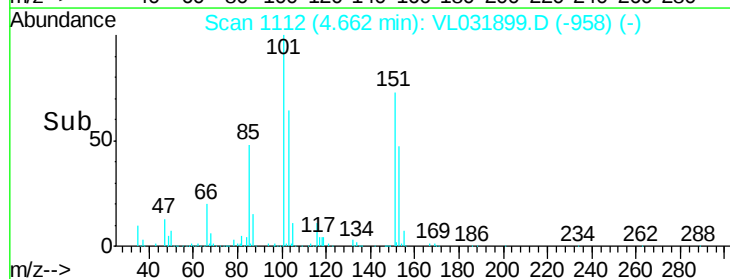
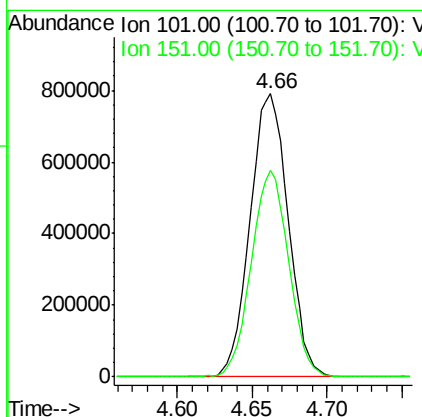
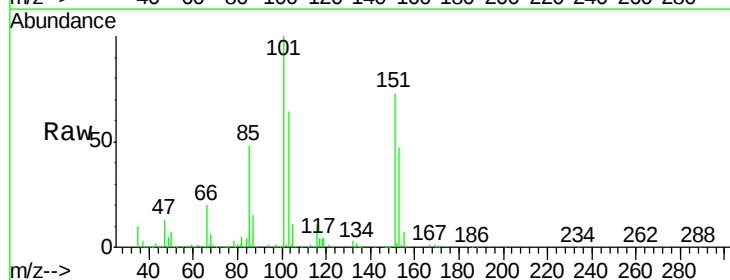
Manual Integrations
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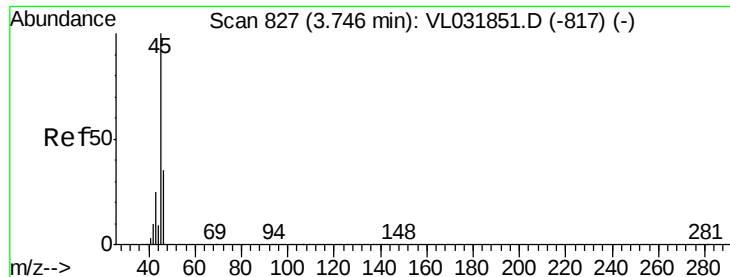
sam
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#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 8.66 ppbv
 RT: 4.66 min Scan# 1112
 Delta R.T. -0.00 min
 Lab File: VL031899.D
 Acq: 20 Apr 2018 14:32

Tgt Ion:101 Resp: 1402162
 Ion Ratio Lower Upper
 101 100
 151 71.7 57.0 85.6





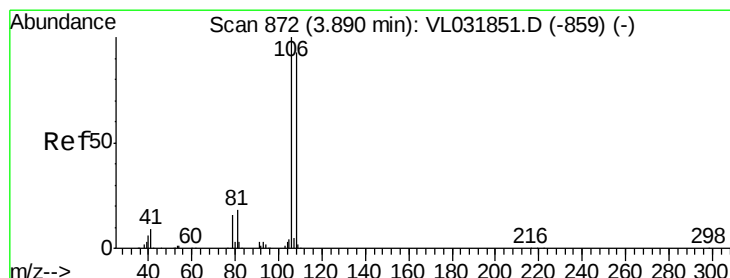
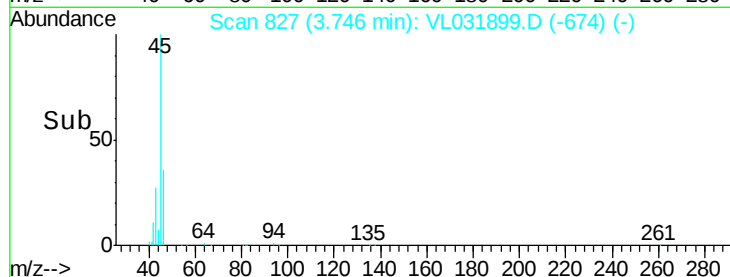
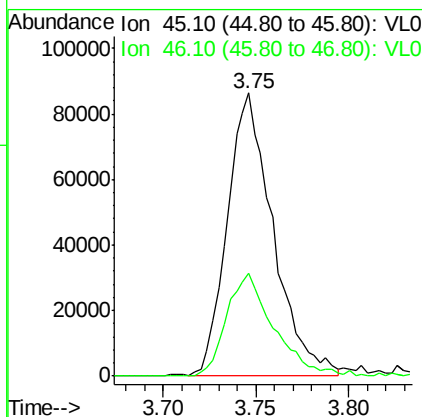
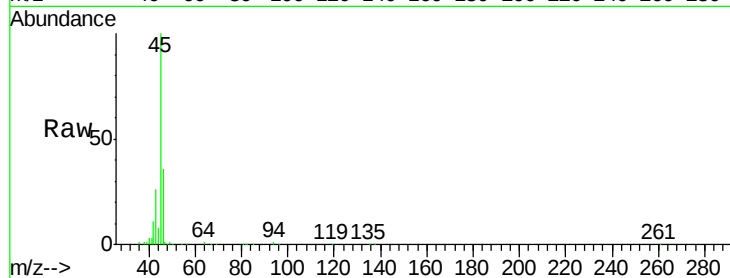
#13
Ethanol
Concen: 8.81 ppbv
RT: 3.75 min Scan# 827
Delta R.T. -0.01 min
Lab File: VL031899.D
Acq: 20 Apr 2018 14:32

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion	45	46	Ratio	Lower	Upper
148240	100	37.3		14.6	58.6

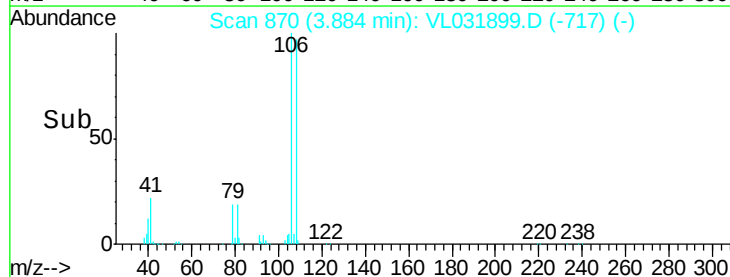
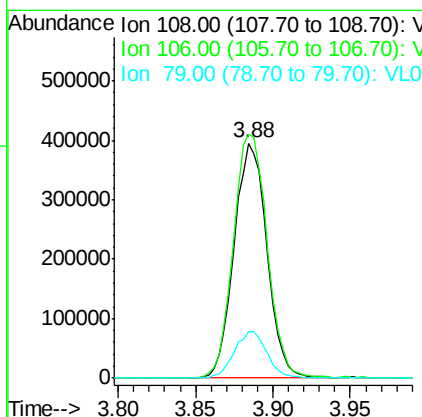
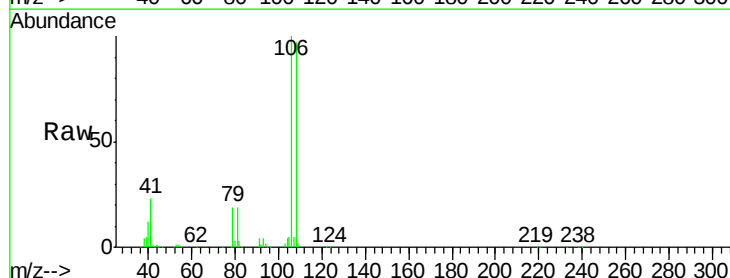
Manual Integrations
APPROVED

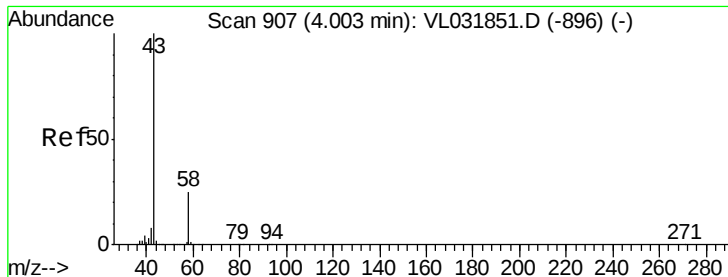
sam
4/23/2018 12:50:54 PM



#14
Bromoethene
Concen: 9.50 ppbv
RT: 3.88 min Scan# 870
Delta R.T. -0.01 min
Lab File: VL031899.D
Acq: 20 Apr 2018 14:32

Tgt Ion	108	106	79	Ratio	Lower	Upper
580349	100	107.8	19.9		86.6	130.0
					15.5	23.3





#15

Acetone

Concen: 7.83 ppbv

RT: 4.00 min Scan# 906

Delta R.T. -0.00 min

Lab File: VL031899.D

Acq: 20 Apr 2018 14:32

Tot Ion: 43 Resp: 1485705

Ion Ratio Lower Upper

43 100

58 25.6 20.9 31.3

Instrument :

MSVOA_L

ClientSampleId :

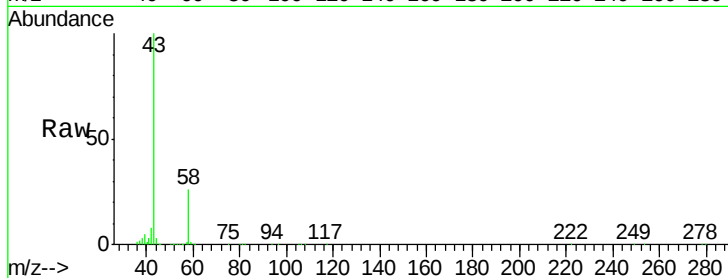
VSTDCCC010EC

Manual Integrations

APPROVED

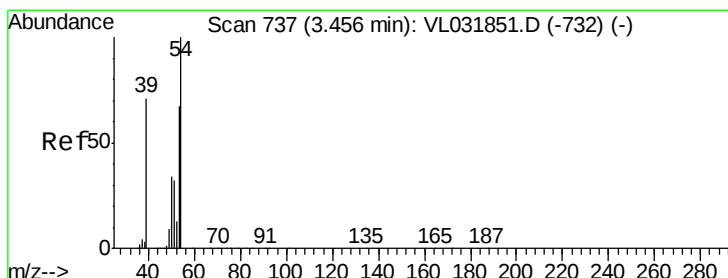
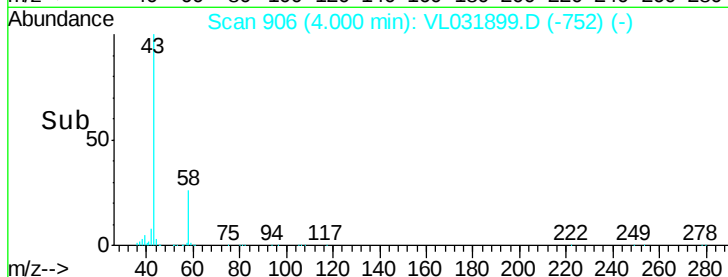
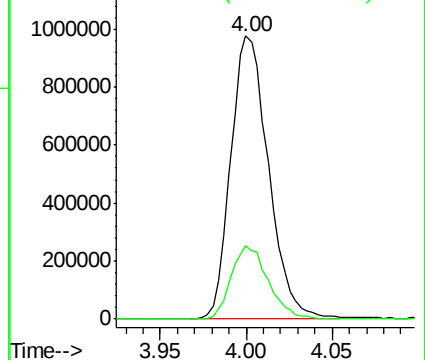
sam

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Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#16

1,3-Butadiene

Concen: 10.11 ppbv

RT: 3.45 min Scan# 736

Delta R.T. -0.00 min

Lab File: VL031899.D

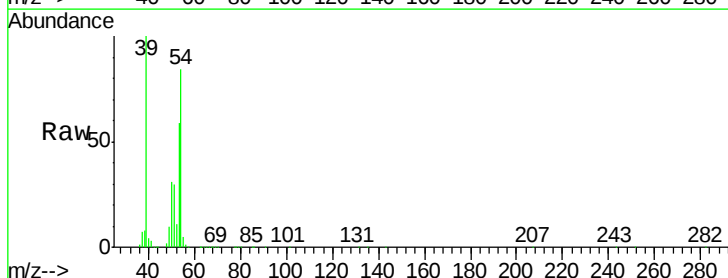
Acq: 20 Apr 2018 14:32

Tgt Ion: 39 Resp: 709745

Ion Ratio Lower Upper

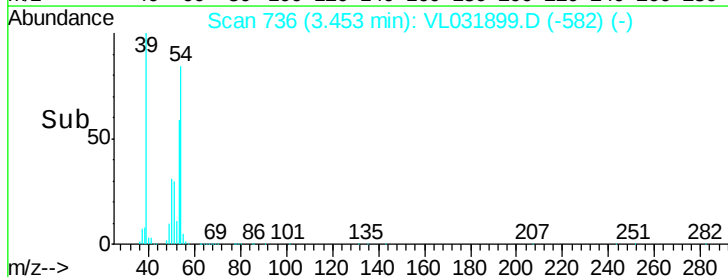
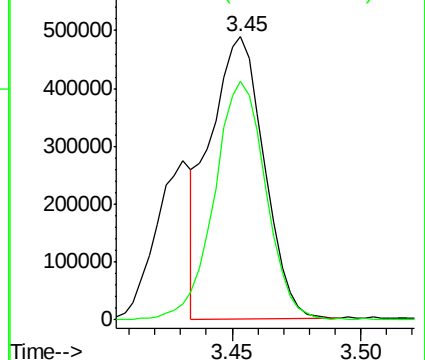
39 100

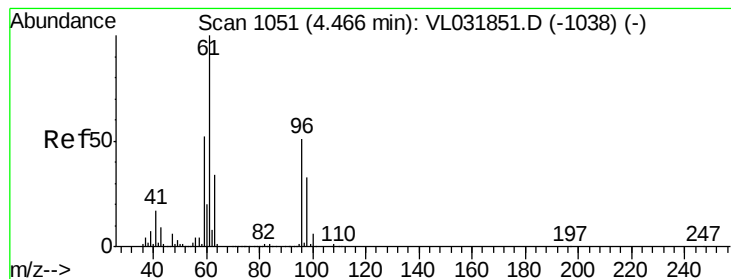
54 81.0 63.3 94.9



Abundance Ion 39.10 (38.80 to 39.80): VL0

Ion 54.10 (53.80 to 54.80): VL0





#17

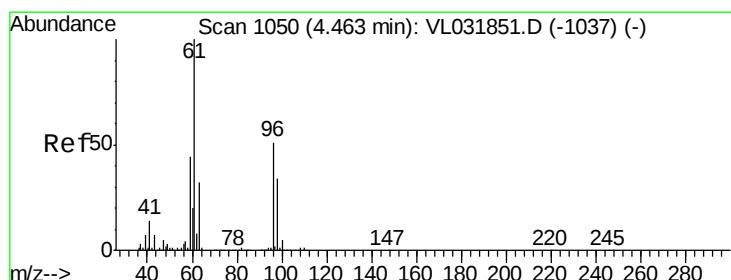
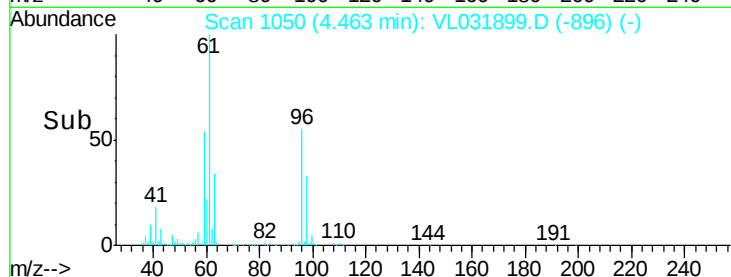
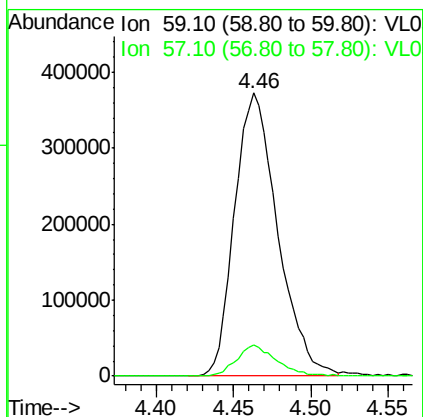
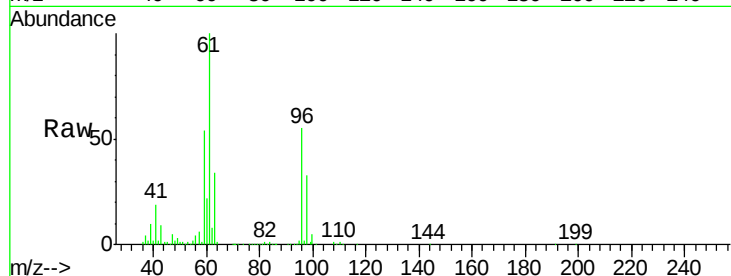
tert-Butyl alcohol
Concen: 9.19 ppbv
RT: 4.46 min Scan# 1050
Delta R.T. -0.00 min
Lab File: VL031899.D
Acq: 20 Apr 2018 14:32

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion: 59 Resp: 720472
Ion Ratio Lower Upper
59 100
57 10.4 8.5 12.7

Manual Integrations
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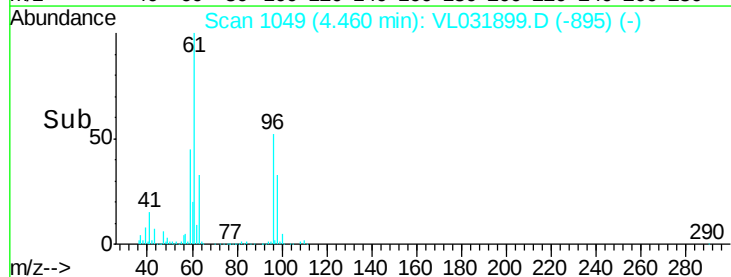
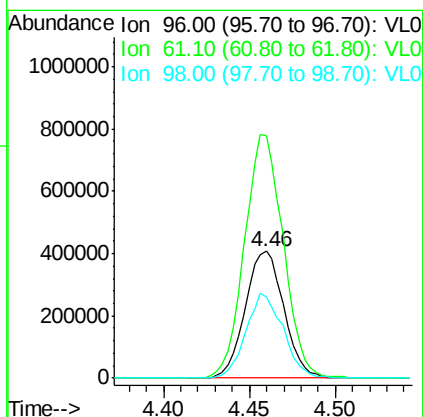
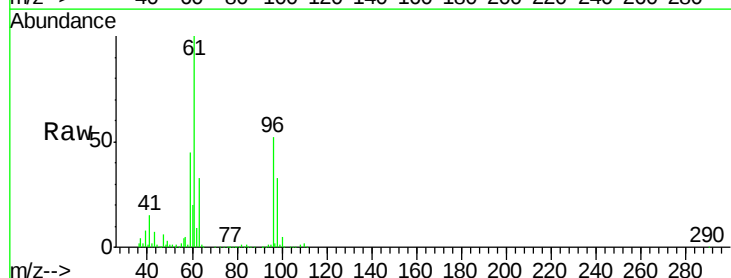
sam
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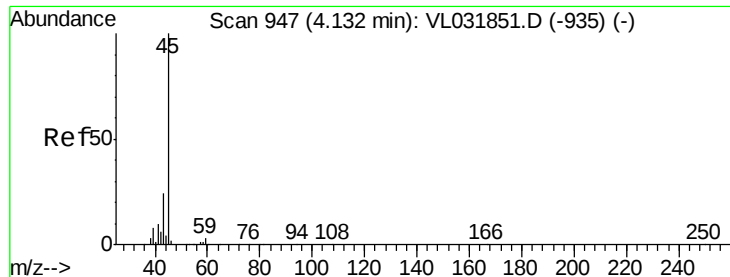


#18

1,1-Dichloroethene
Concen: 9.13 ppbv
RT: 4.46 min Scan# 1049
Delta R.T. -0.00 min
Lab File: VL031899.D
Acq: 20 Apr 2018 14:32

Tgt Ion: 96 Resp: 635266
Ion Ratio Lower Upper
96 100
61 191.1 161.0 241.6
98 64.0 52.7 79.1





#19

Isopropyl Alcohol

Concen: 9.50 ppbv

RT: 4.12 min Scan# 944

Delta R.T. -0.01 min

Lab File: VL031899.D

Acq: 20 Apr 2018 14:32

Tot Ion: 45 Resp: 1006663

Ion Ratio Lower Upper

45 100

58 1.7 1.7 2.5

Instrument :

MSVOA_L

ClientSampleId :

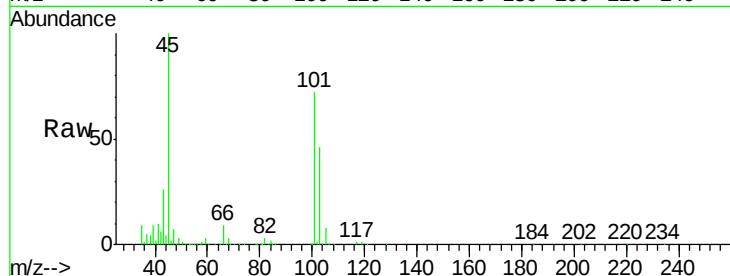
VSTDCCC010EC

Manual Integrations

APPROVED

sam

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Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

4.12

600000

500000

400000

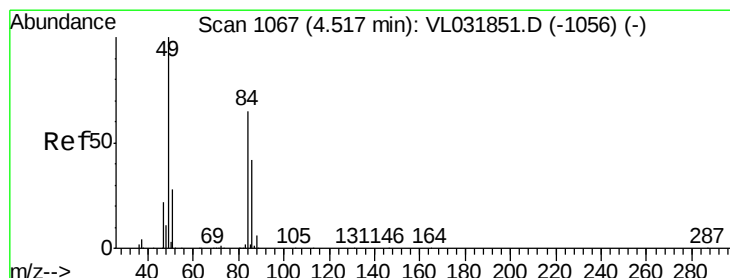
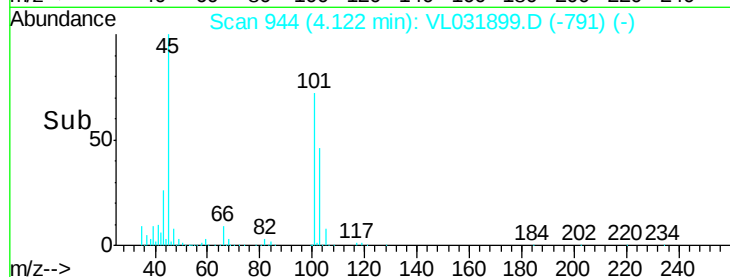
300000

200000

100000

0

Time--> 4.05 4.10 4.15 4.20



#20

Methylene Chloride

Concen: 8.63 ppbv

RT: 4.51 min Scan# 1066

Delta R.T. -0.01 min

Lab File: VL031899.D

Acq: 20 Apr 2018 14:32

Tgt Ion: 84 Resp: 596292

Ion Ratio Lower Upper

84 100

49 156.2 125.6 188.4

51 46.8 36.4 54.6

86 66.3 53.7 80.5

Abundance Ion 84.00 (83.70 to 84.70): VL0

Ion 49.10 (48.80 to 49.80): VL0

Ion 51.10 (50.80 to 51.80): VL0

Ion 86.00 (85.70 to 86.70): VL0

800000

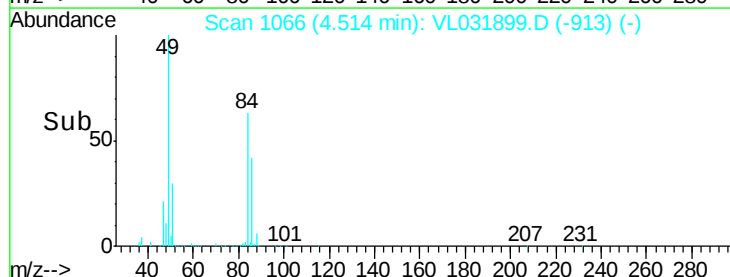
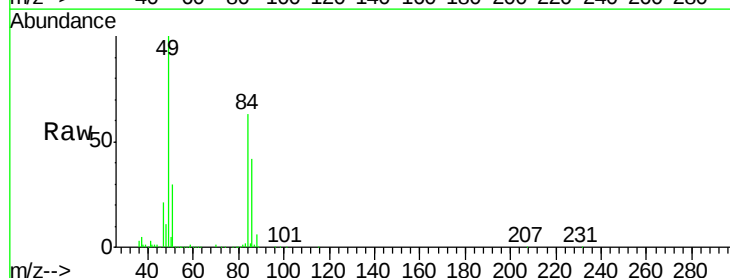
600000

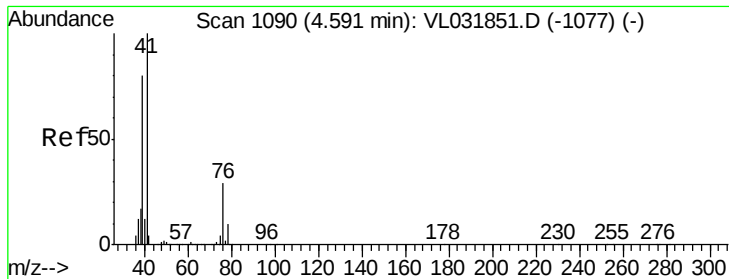
400000

200000

0

Time--> 4.45 4.50 4.55 4.60





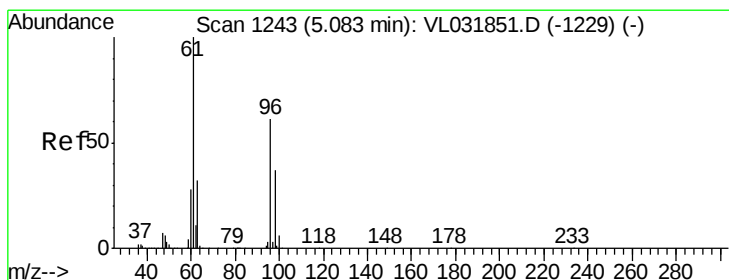
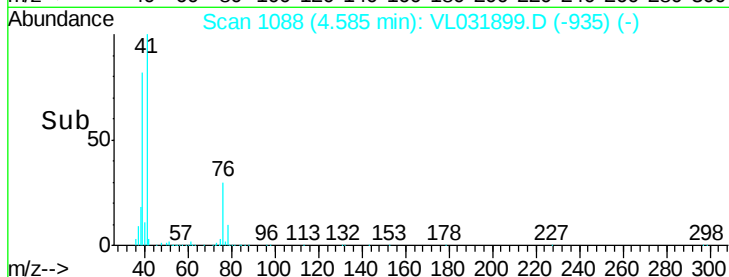
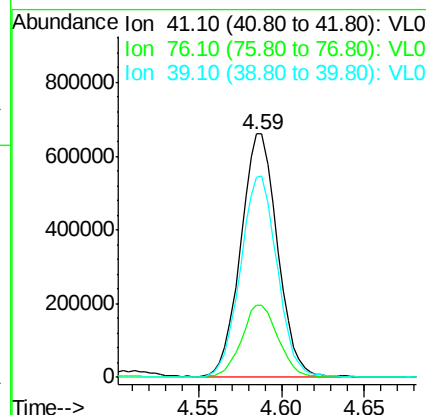
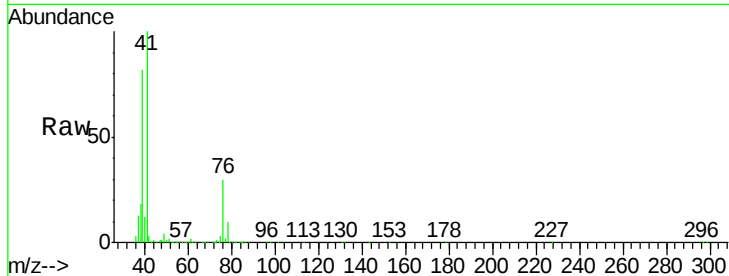
#21
 Allvl Chloride
 Concen: 9.35 ppbv
 RT: 4.59 min Scan# 1088
 Delta R.T. -0.01 min
 Lab File: VL031899.D
 Acq: 20 Apr 2018 14:32

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
41	100		
76	29.8	23.4	35.2
39	83.0	67.6	101.4

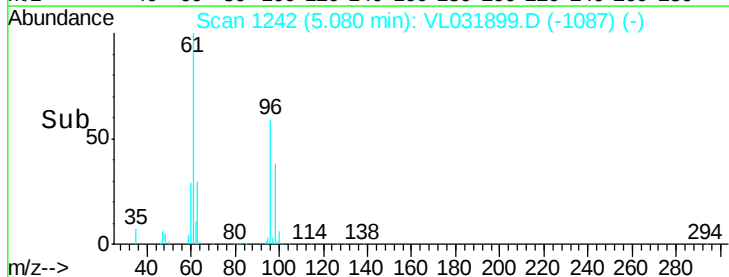
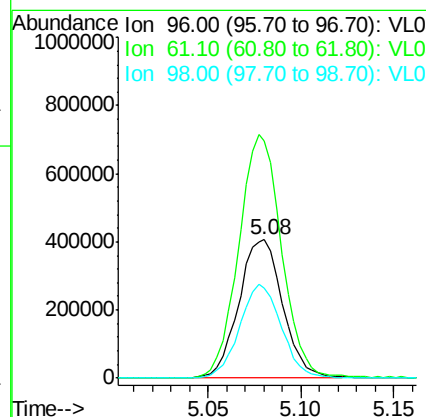
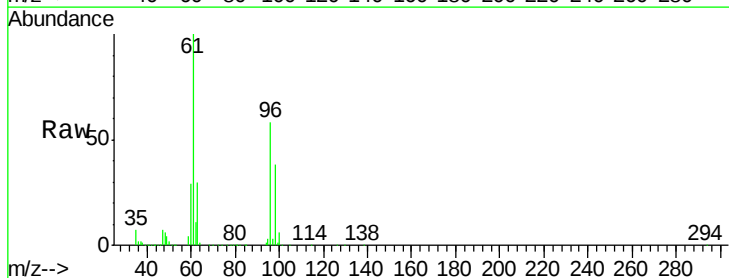
Manual Integrations
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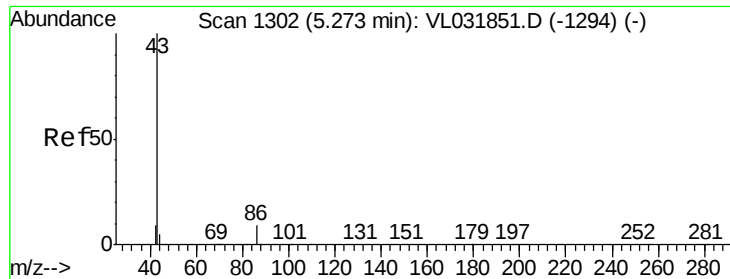
sam
 4/23/2018 12:50:54 PM



#22
 trans-1,2-Dichloroethene
 Concen: 9.24 ppbv
 RT: 5.08 min Scan# 1242
 Delta R.T. -0.00 min
 Lab File: VL031899.D
 Acq: 20 Apr 2018 14:32

Tgt Ion	Ratio	Lower	Upper
96	100		
61	171.3	131.1	196.7
98	65.0	47.6	71.4





#23

Vinyl Acetate

Concen: 10.06 ppbv

RT: 5.27 min Scan# 1301

Delta R.T. -0.01 min

Lab File: VL031899.D

Acq: 20 Apr 2018 14:32

Tot Ion: 43 Resp: 1934788

Ion Ratio Lower Upper

43 100

86 7.5 5.8 8.8

42 10.5 8.5 12.7

44 5.6 4.2 6.4

Instrument :

MSVOA_L

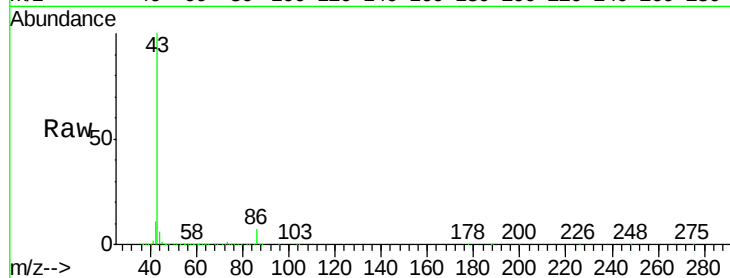
ClientSampleId :

VSTDCCC010EC

Manual Integrations
APPROVED

sam

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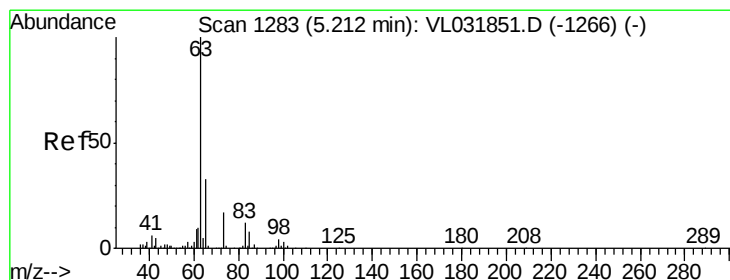
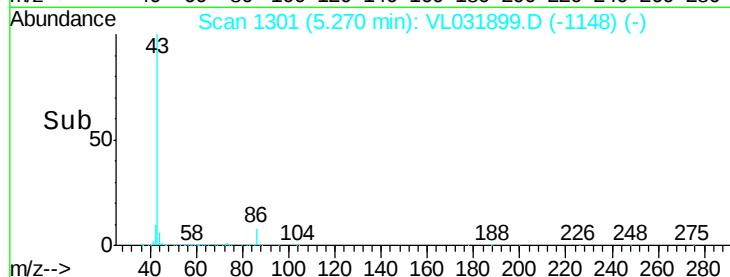
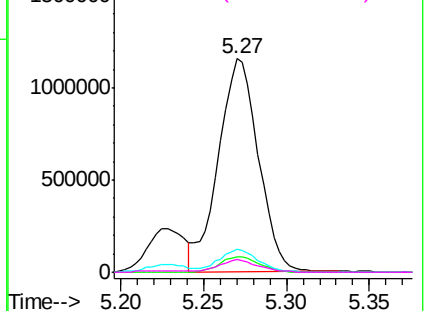


Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 86.10 (85.80 to 86.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

Ion 44.10 (43.80 to 44.80): VL0



#24

1,1-Dichloroethane

Concen: 8.96 ppbv

RT: 5.21 min Scan# 1282

Delta R.T. -0.00 min

Lab File: VL031899.D

Acq: 20 Apr 2018 14:32

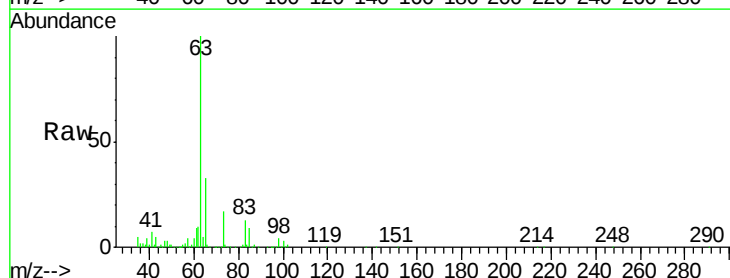
Tgt Ion: 63 Resp: 1715916

Ion Ratio Lower Upper

63 100

98 4.3 2.4 7.2

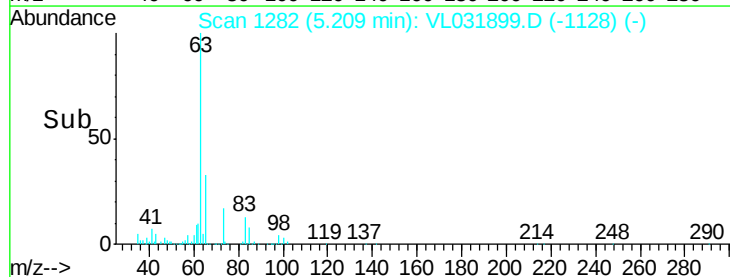
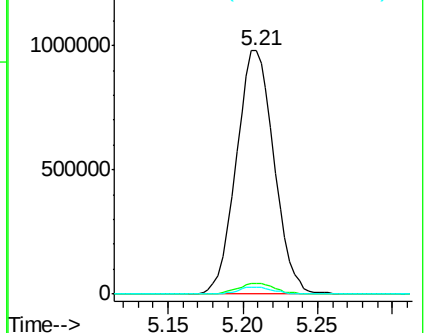
100 2.7 1.5 4.4

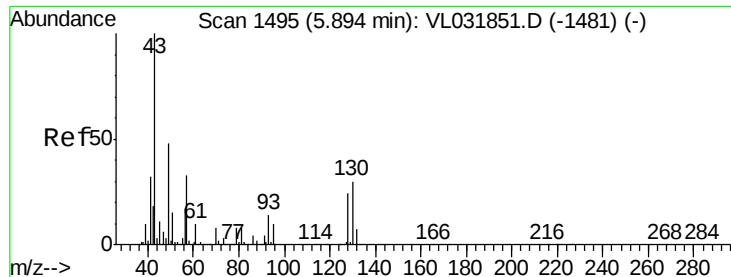


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

Ion 100.00 (99.70 to 100.70): VL0





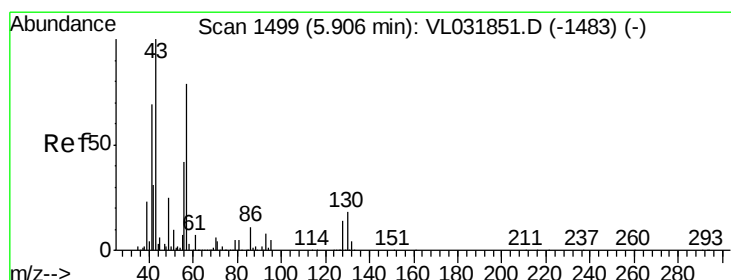
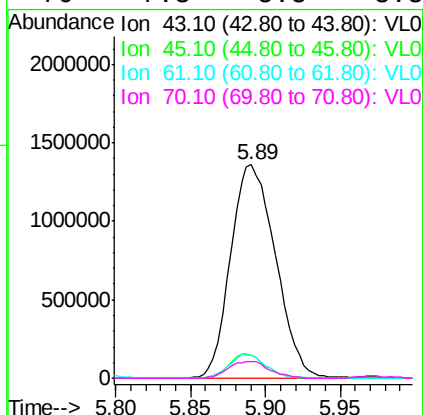
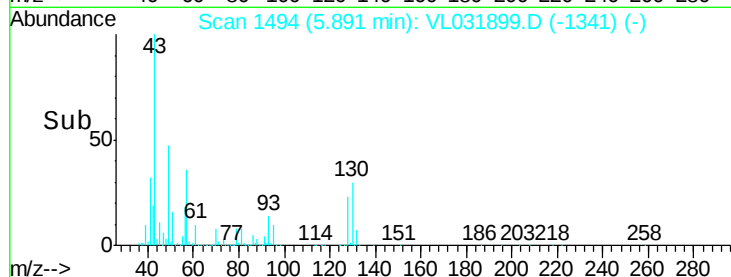
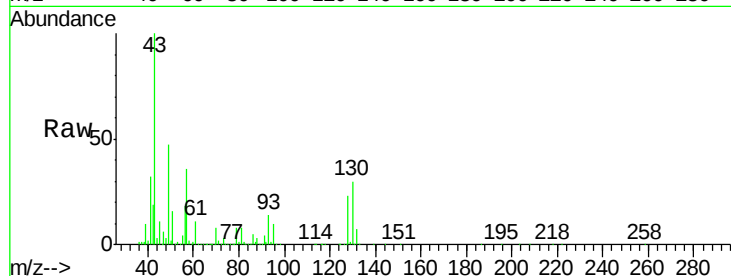
#25
Ethyl Acetate
Concen: 9.59 ppbv
RT: 5.89 min Scan# 1494
Delta R.T. -0.01 min
Lab File: VL031899.D
Acq: 20 Apr 2018 14:32

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
43	100		
45	9.6	7.8	11.8
61	9.0	7.2	10.8
70	7.3	5.8	8.8

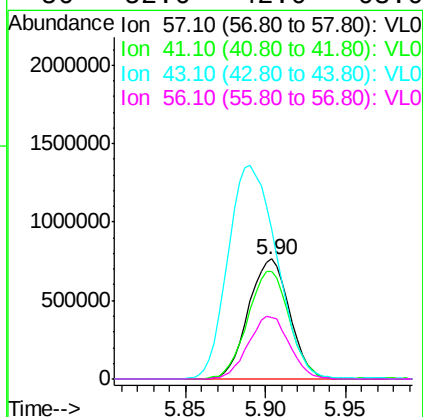
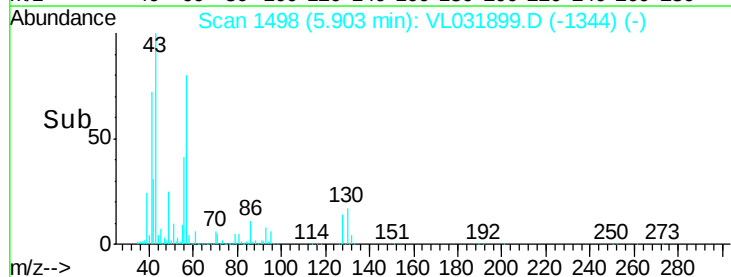
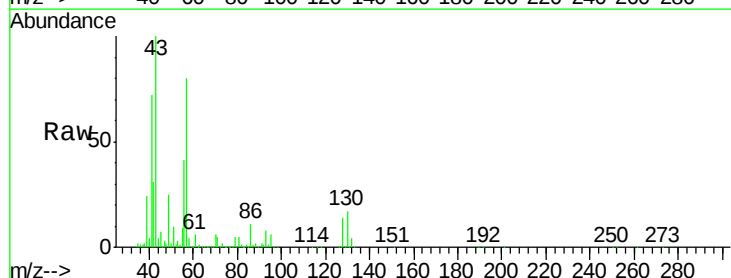
Manual Integrations
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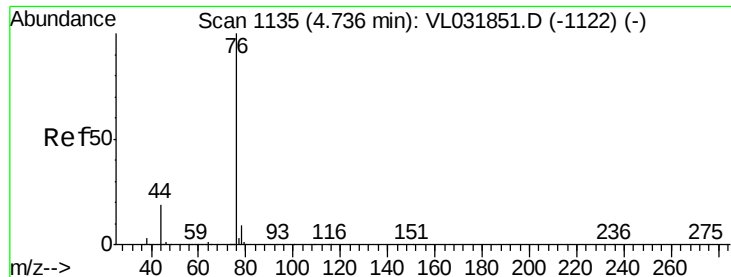
Sam
4/23/2018 12:50:54 PM



#26
Hexane
Concen: 9.75 ppbv
RT: 5.90 min Scan# 1498
Delta R.T. -0.00 min
Lab File: VL031899.D
Acq: 20 Apr 2018 14:32

Tgt Ion	Ratio	Lower	Upper
57	100		
41	91.4	72.0	108.0
43	212.3	169.8	254.8
56	52.6	42.0	63.0





#27

Carbon Disulfide

Concen: 10.03 ppbv

RT: 4.73 min Scan# 1133

Delta R.T. -0.01 min

Lab File: VL031899.D

Acq: 20 Apr 2018 14:32

Instrument :

MSVOA_L

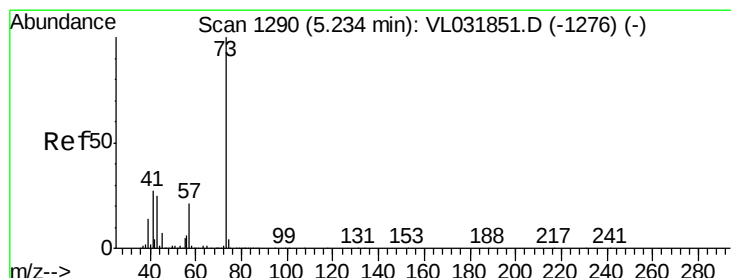
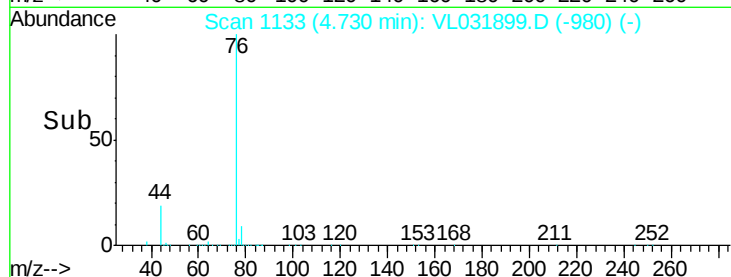
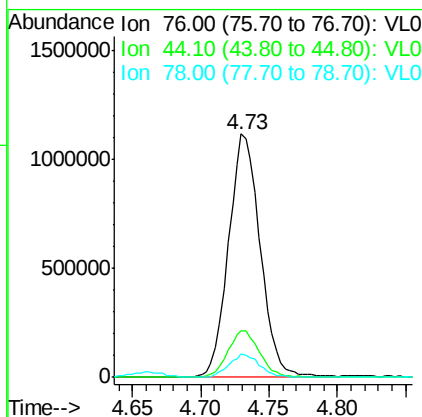
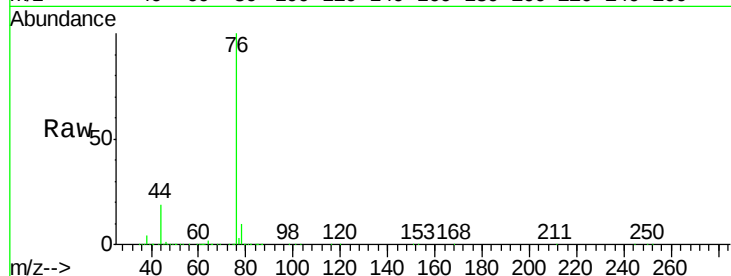
ClientSampleId :

VSTDCCC010EC

Tot Ion:	76	Resp:	1795910
Ion	Ratio	Lower	Upper
76	100		
44	19.0	15.6	23.4
78	9.3	7.6	11.4

Manual Integrations
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sam
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#28

Methyl tert-Butyl Ether

Concen: 9.41 ppbv

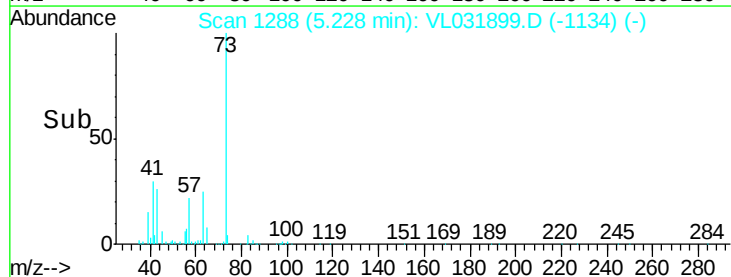
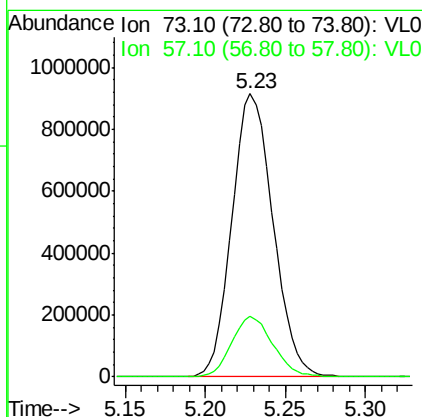
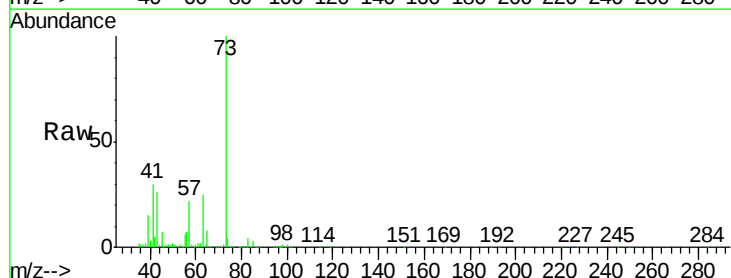
RT: 5.23 min Scan# 1288

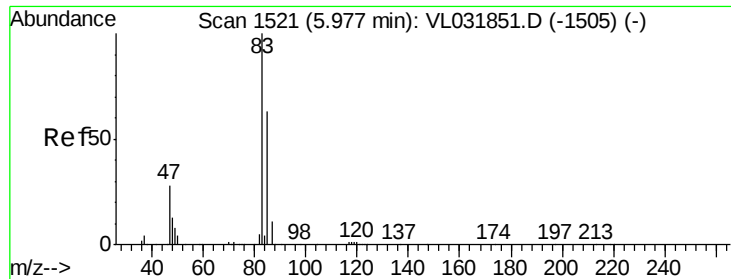
Delta R.T. -0.00 min

Lab File: VL031899.D

Acq: 20 Apr 2018 14:32

Tgt Ion:	73	Resp:	1597072
Ion	Ratio	Lower	Upper
73	100		
57	21.6	17.6	26.4





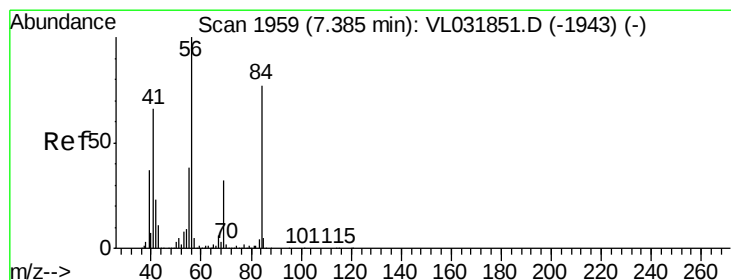
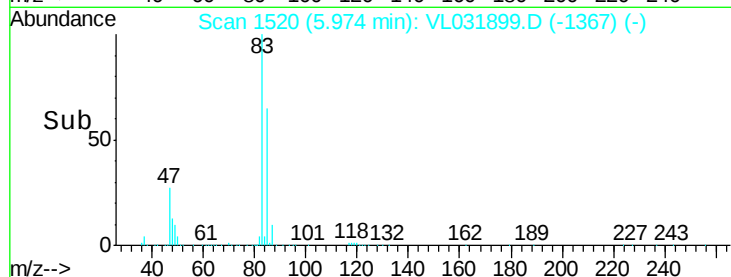
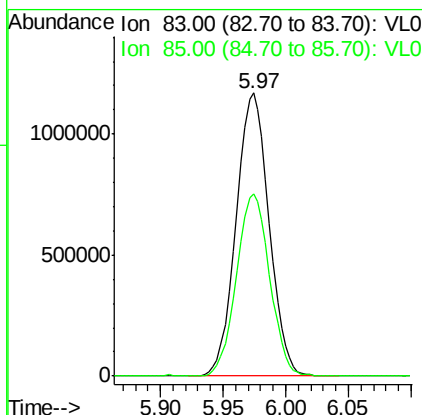
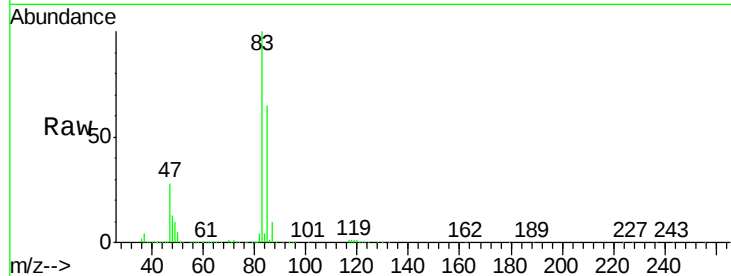
#29
Chloroform
Concen: 9.15 ppbv
RT: 5.97 min Scan# 1520
Delta R.T. -0.01 min
Lab File: VL031899.D
Acq: 20 Apr 2018 14:32

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion: 83 Resp: 2139080
Ion Ratio Lower Upper
83 100
85 64.5 51.4 77.0

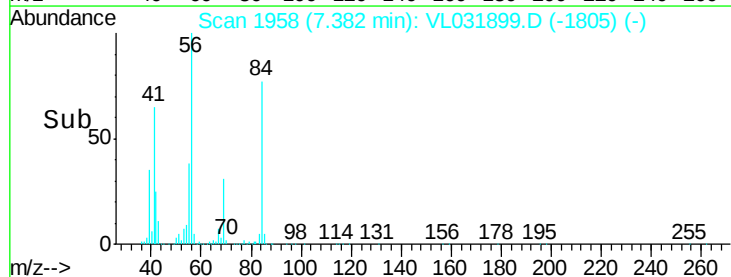
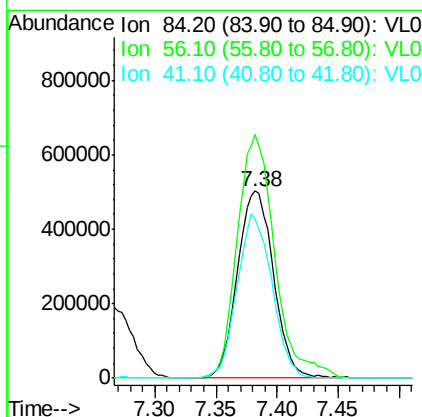
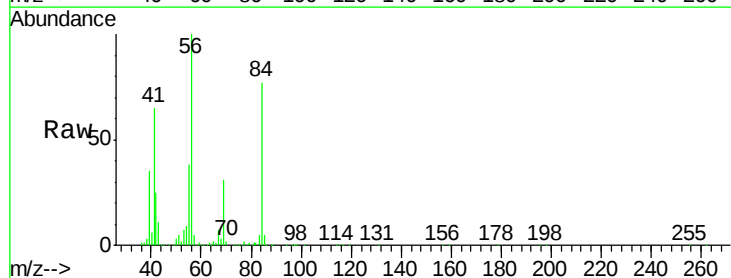
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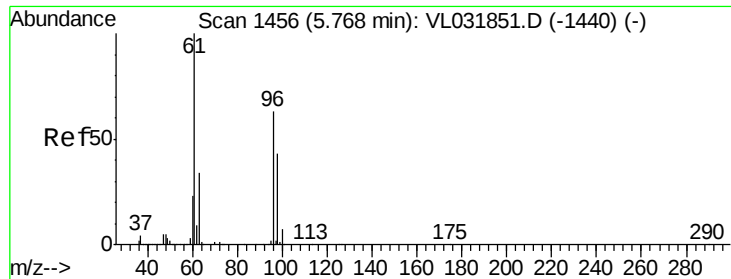
sam
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#30
Cyclohexane
Concen: 10.40 ppbv
RT: 7.38 min Scan# 1958
Delta R.T. -0.01 min
Lab File: VL031899.D
Acq: 20 Apr 2018 14:32

Tgt Ion: 84 Resp: 1024512
Ion Ratio Lower Upper
84 100
56 136.1 107.7 161.5
41 84.8 68.2 102.2





#31

cis-1,2-Dichloroethene

Concen: 10.14 ppbv

RT: 5.76 min Scan# 1454

Delta R.T. -0.00 min

Lab File: VL031899.D

Acq: 20 Apr 2018 14:32

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 61 Resp: 1267062

Ion Ratio Lower Upper

61 100

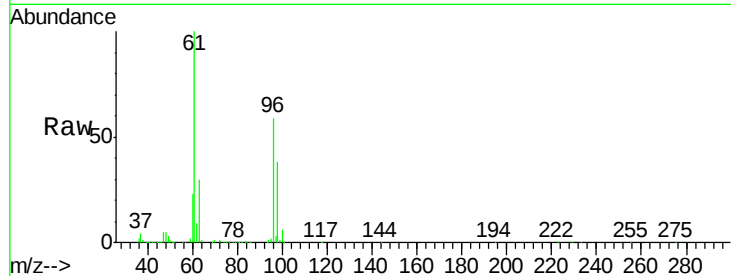
96 58.7 47.6 71.4

98 37.5 30.3 45.5

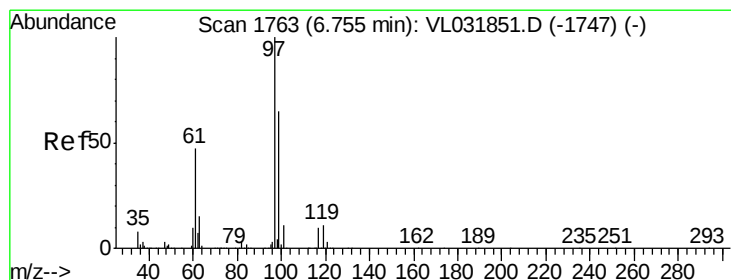
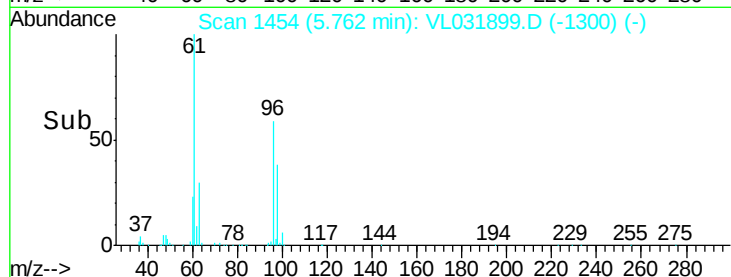
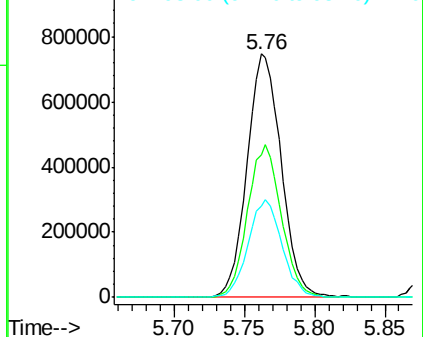
Manual Integrations
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Abundance Ion 61.10 (60.80 to 61.80): VL0
Ion 96.00 (95.70 to 96.70): VL0
Ion 98.00 (97.70 to 98.70): VL0



#32

1,1,1-Trichloroethane

Concen: 9.27 ppbv

RT: 6.75 min Scan# 1761

Delta R.T. -0.01 min

Lab File: VL031899.D

Acq: 20 Apr 2018 14:32

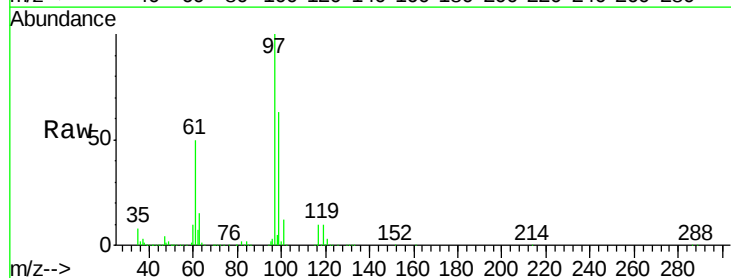
Tgt Ion: 97 Resp: 2110617

Ion Ratio Lower Upper

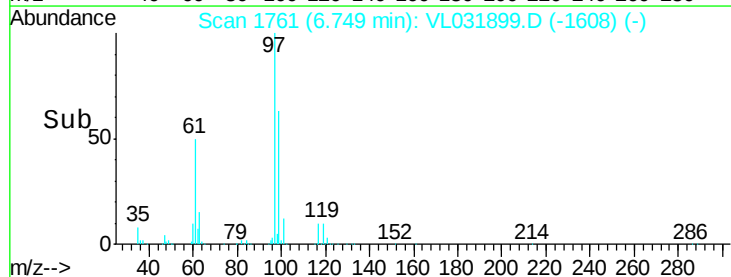
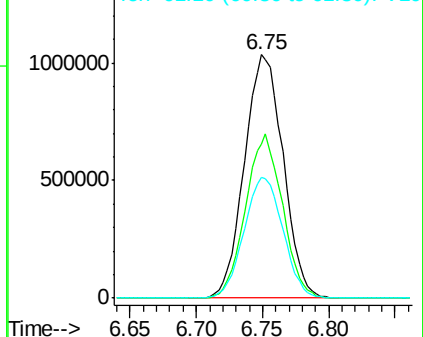
97 100

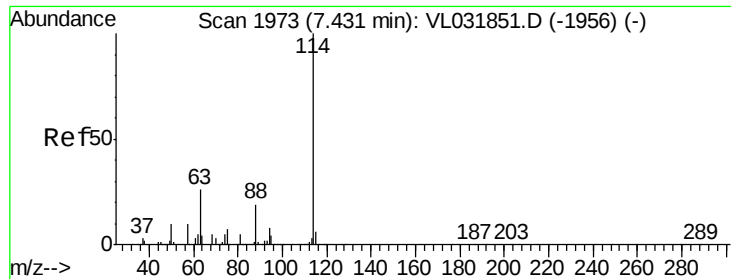
99 64.0 51.5 77.3

61 49.8 40.0 60.0



Abundance Ion 97.00 (96.70 to 97.70): VL0
Ion 99.00 (98.70 to 99.70): VL0
Ion 61.10 (60.80 to 61.80): VL0





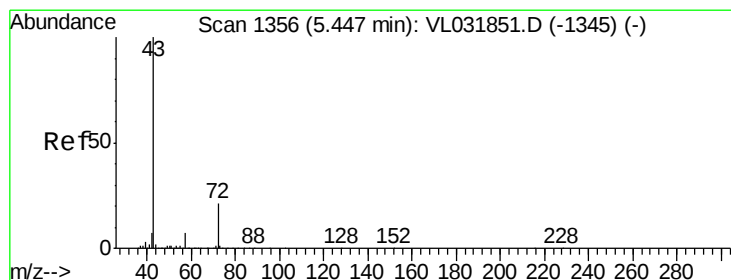
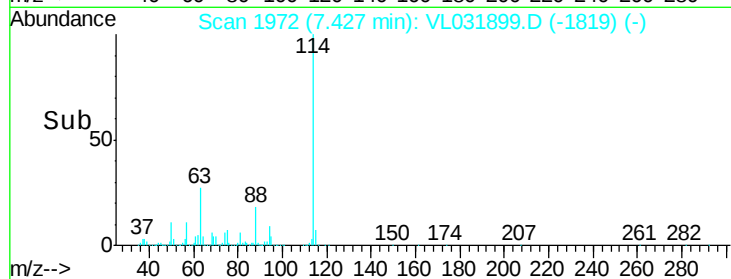
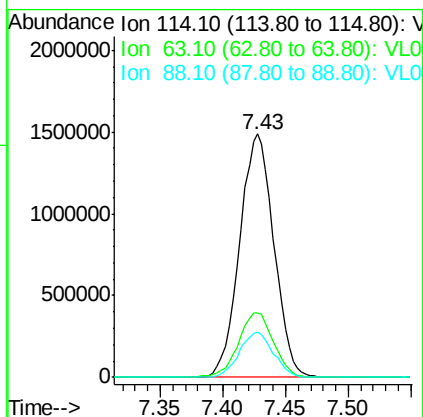
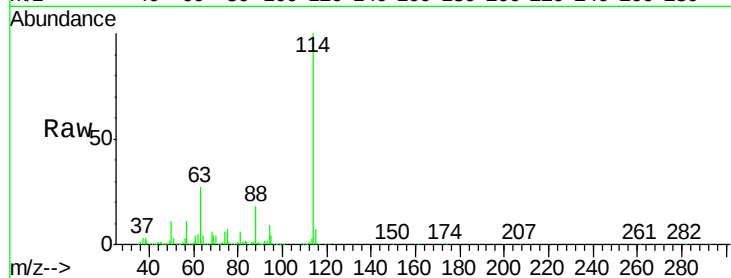
#33
 1,4-Difluorobenzene
 Concen: 10.00 ppbv
 RT: 7.43 min Scan# 1972
 Delta R.T. -0.01 min
 Lab File: VL031899.D
 Acq: 20 Apr 2018 14:32

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
114	100		
63	27.5	21.8	32.6
88	18.5	14.6	22.0

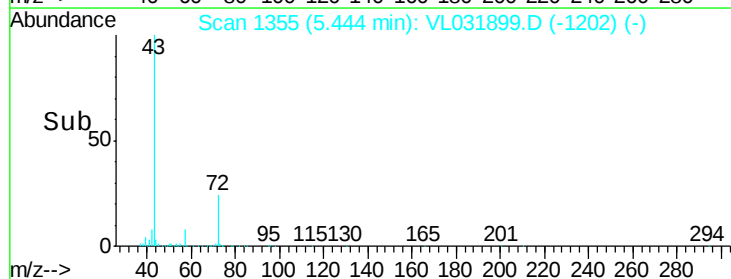
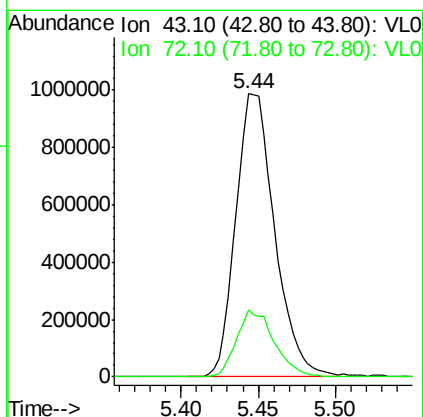
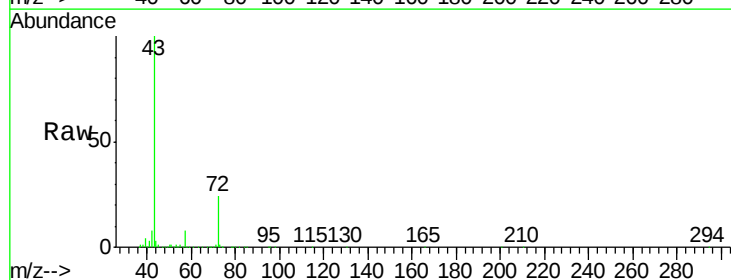
Manual Integrations
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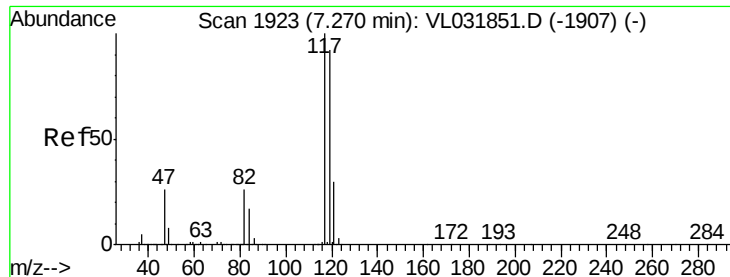
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#34
 2-Butanone
 Concen: 8.80 ppbv
 RT: 5.44 min Scan# 1355
 Delta R.T. -0.01 min
 Lab File: VL031899.D
 Acq: 20 Apr 2018 14:32

Tgt Ion	Ratio	Lower	Upper
43	100		
72	22.9	18.6	27.8





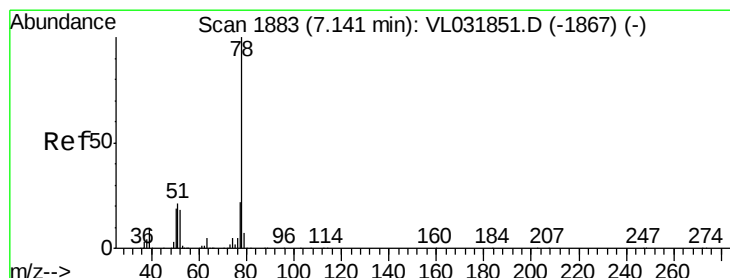
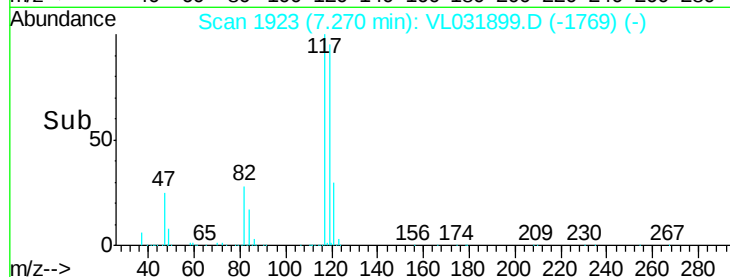
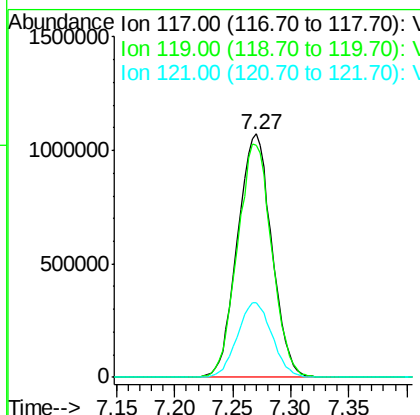
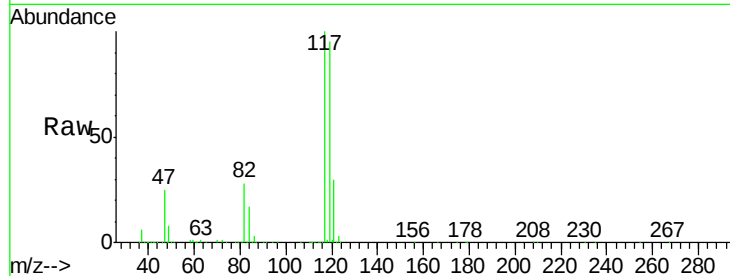
#35
Carbon Tetrachloride
Concen: 8.98 ppbv
RT: 7.27 min Scan# 1923
Delta R.T. -0.00 min
Lab File: VL031899.D
Acq: 20 Apr 2018 14:32

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
117	100		
119	95.4	76.9	115.3
121	30.4	24.5	36.7

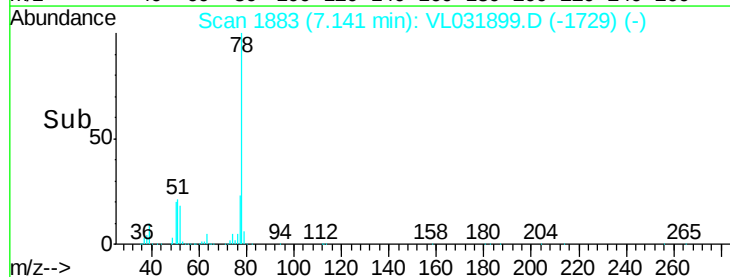
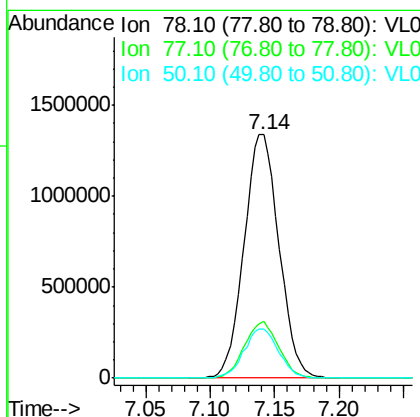
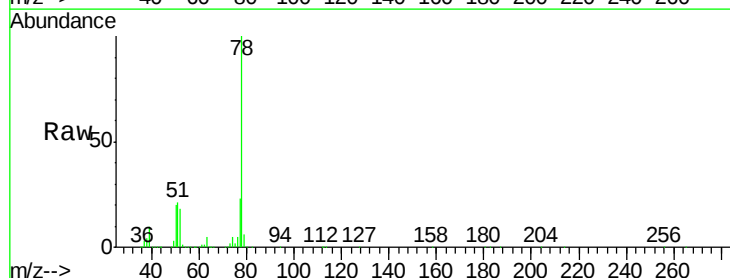
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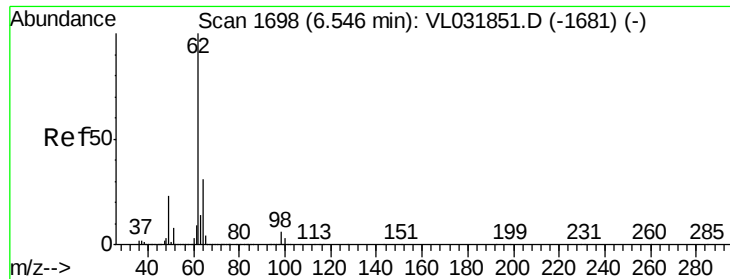
sam
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#36
Benzene
Concen: 9.97 ppbv
RT: 7.14 min Scan# 1883
Delta R.T. -0.00 min
Lab File: VL031899.D
Acq: 20 Apr 2018 14:32

Tgt Ion	Ratio	Lower	Upper
78	100		
77	23.1	19.2	28.8
50	20.0	16.7	25.1





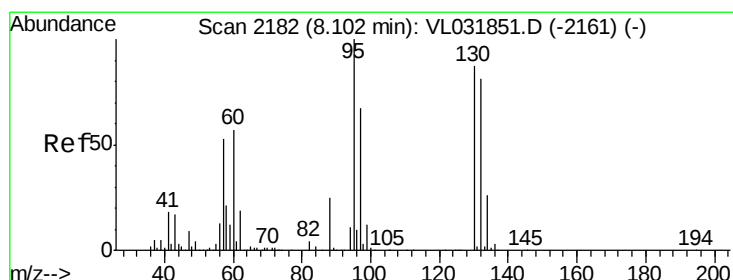
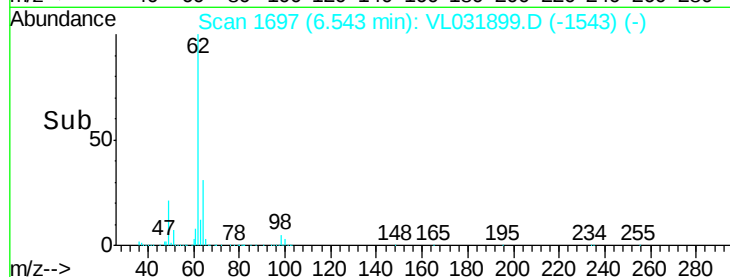
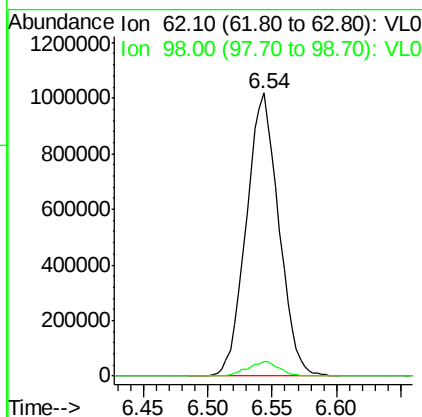
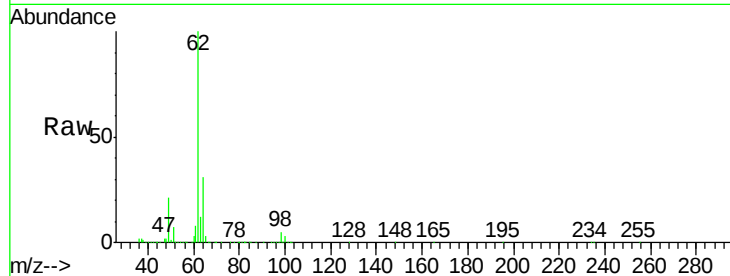
#37
 1,2-Dichloroethane
 Concen: 9.48 ppbv
 RT: 6.54 min Scan# 1697
 Delta R.T. -0.00 min
 Lab File: VL031899.D
 Acq: 20 Apr 2018 14:32

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
62	100		
98	5.1	4.0	6.0

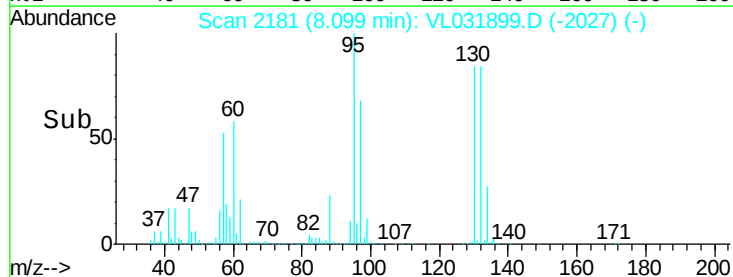
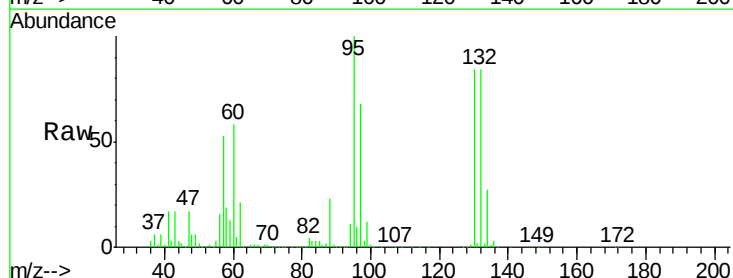
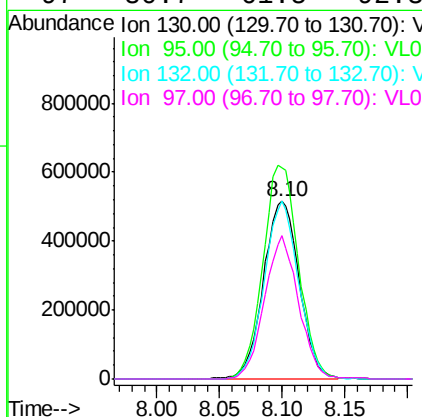
Manual Integrations
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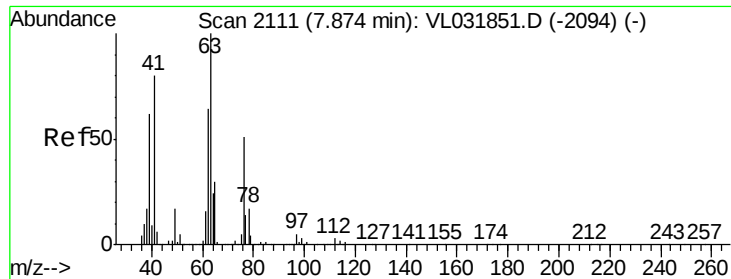
sam
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#38
 Trichloroethene
 Concen: 9.95 ppbv
 RT: 8.10 min Scan# 2181
 Delta R.T. -0.00 min
 Lab File: VL031899.D
 Acq: 20 Apr 2018 14:32

Tgt Ion	Ratio	Lower	Upper
130	100		
95	119.0	96.6	144.8
132	100.1	79.1	118.7
97	80.7	61.5	92.3





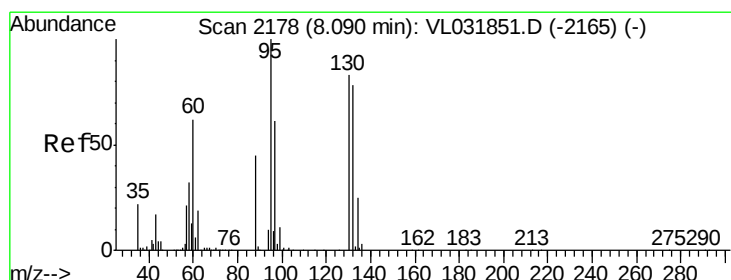
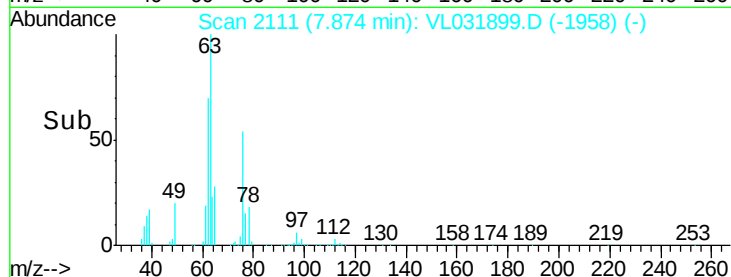
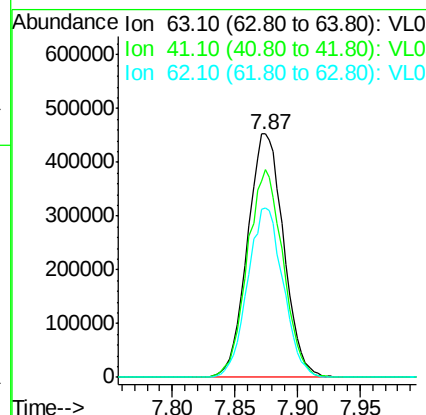
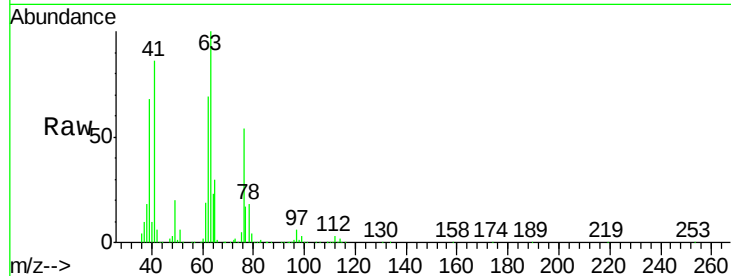
#39
 1,2-Dichloropropane
 Concen: 9.62 ppbv
 RT: 7.87 min Scan# 2111
 Delta R.T. -0.01 min
 Lab File: VL031899.D
 Acq: 20 Apr 2018 14:32

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
63	100		
41	85.4	65.8	98.6
62	69.3	55.0	82.6

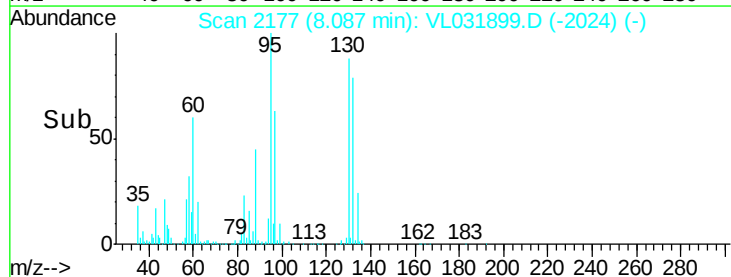
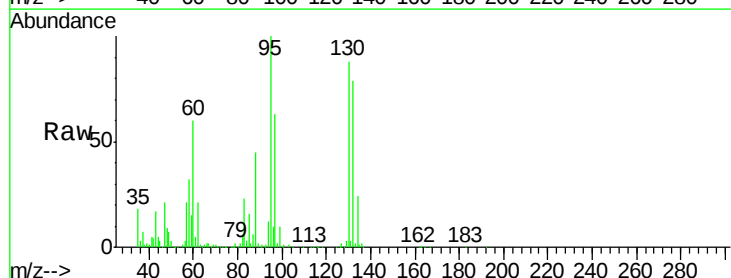
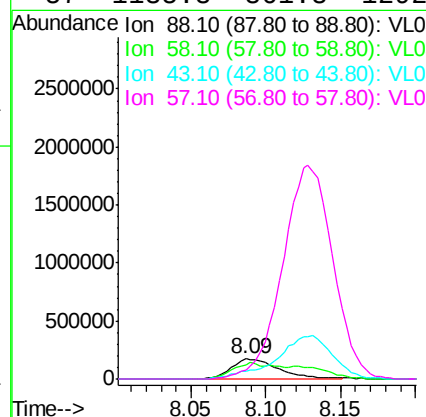
Manual Integrations
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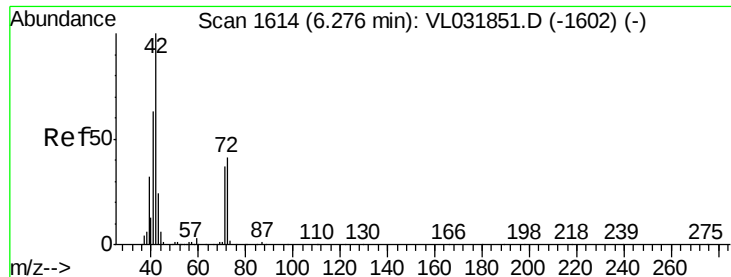
sam
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#40
 1,4-Dioxane
 Concen: 9.89 ppbv
 RT: 8.09 min Scan# 2177
 Delta R.T. -0.01 min
 Lab File: VL031899.D
 Acq: 20 Apr 2018 14:32

Tgt Ion	Ratio	Lower	Upper
88	100		
58	129.4	98.5	147.7
43	257.6	194.3	291.5
57	1135.8	861.8	1292.6





#41

Tetrahydrofuran

Concen: 9.99 ppbv

RT: 6.27 min Scan# 1613

Delta R.T. -0.01 min

Lab File: VL031899.D

Acq: 20 Apr 2018 14:32

Instrument :

MSVOA_L

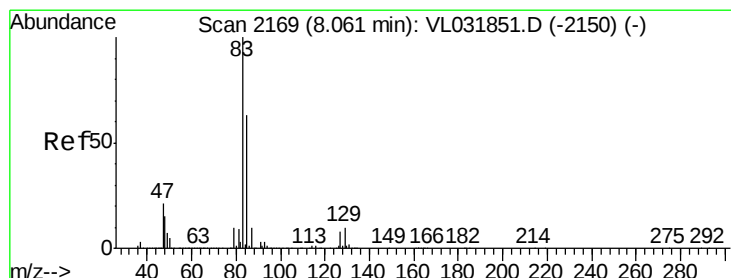
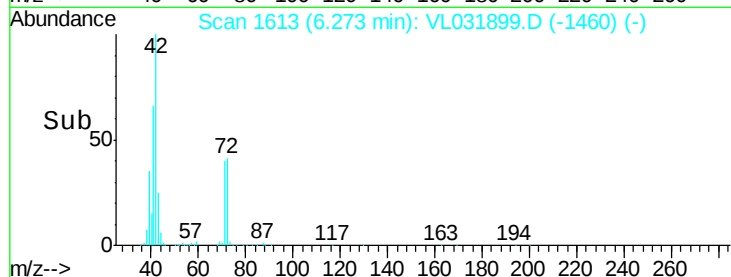
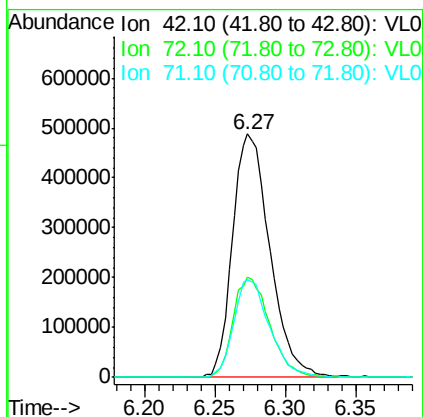
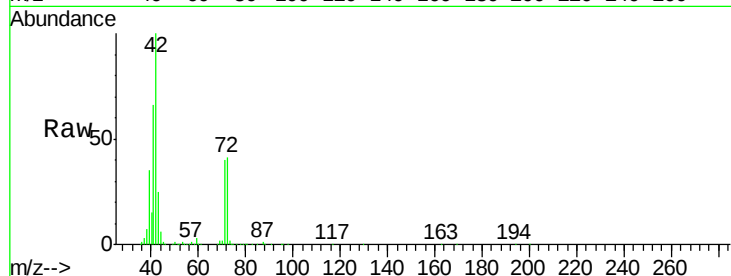
ClientSampleId :

VSTDCCC010EC

Tot Ion:	42	Resp:	905316
Ion Ratio		Lower	Upper
42	100		
72	40.3	33.2	49.8
71	39.1	31.5	47.3

Manual Integrations
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#42

Bromodichloromethane

Concen: 9.83 ppbv

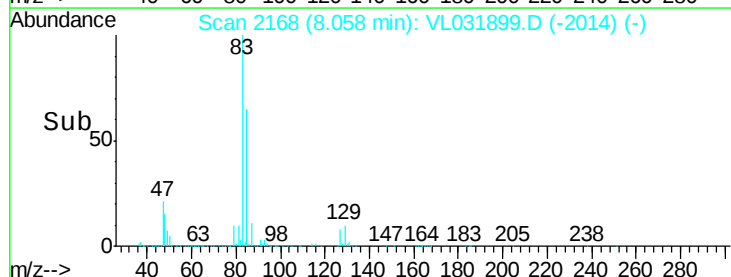
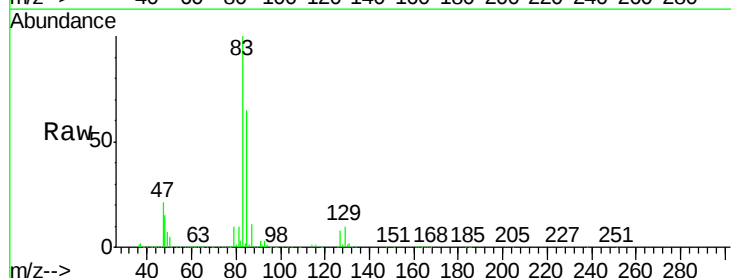
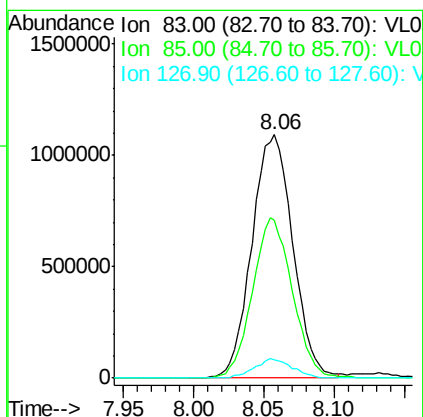
RT: 8.06 min Scan# 2168

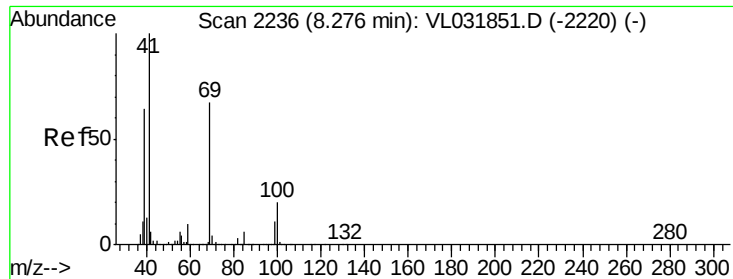
Delta R.T. -0.00 min

Lab File: VL031899.D

Acq: 20 Apr 2018 14:32

Tgt Ion:	83	Resp:	2221117
Ion Ratio		Lower	Upper
83	100		
85	65.1	50.5	75.7
127	7.6	6.0	9.0





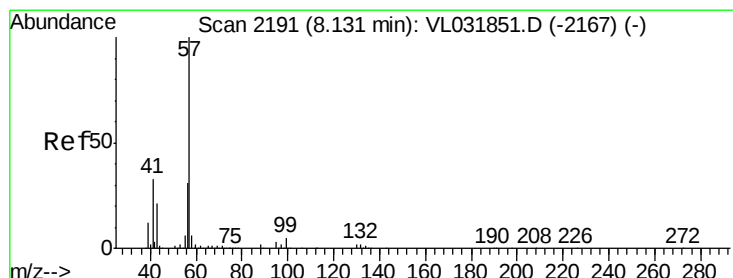
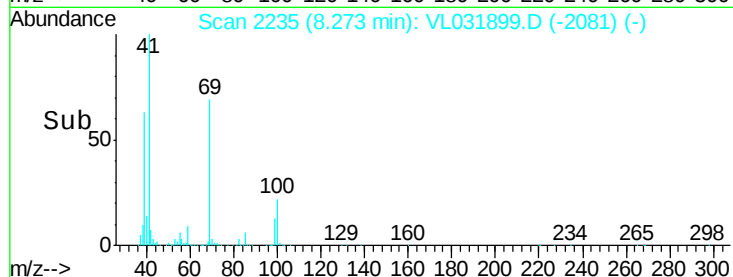
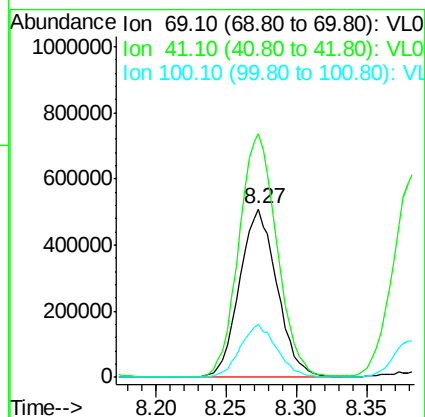
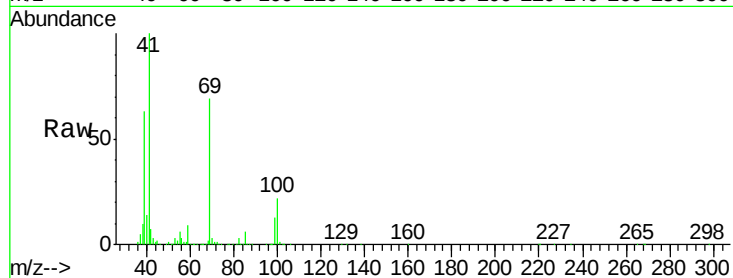
#43
Methvl Methacrvlate
Concen: 10.63 ppbv
RT: 8.27 min Scan# 2235
Delta R.T. -0.00 min
Lab File: VL031899.D
Acq: 20 Apr 2018 14:32

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion	Ion	Ratio	Lower	Upper
69	100			
41	146.7	117.8	176.8	
100	30.7	24.6	37.0	

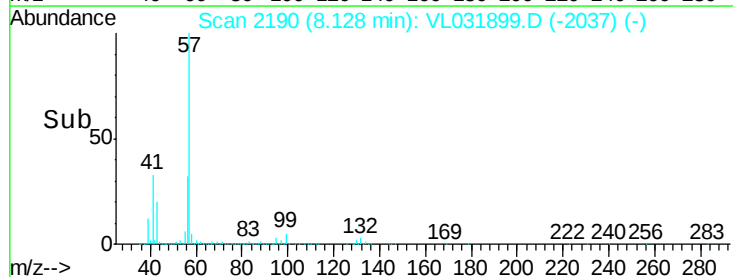
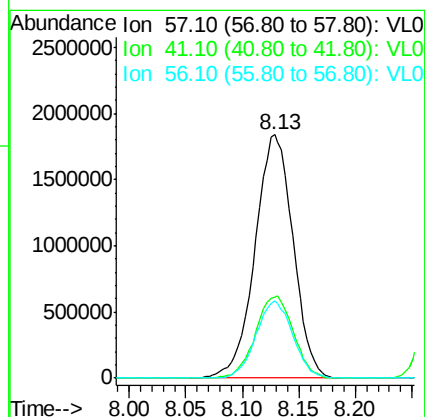
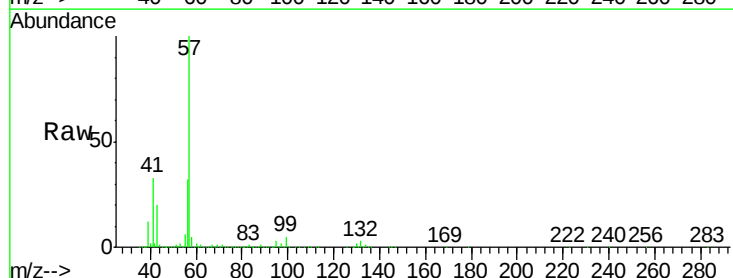
Manual Integrations
APPROVED

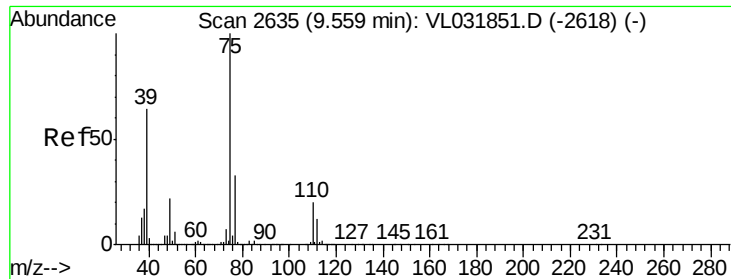
sam
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#44
2,2,4-Trimethylpentane
Concen: 9.82 ppbv
RT: 8.13 min Scan# 2190
Delta R.T. -0.01 min
Lab File: VL031899.D
Acq: 20 Apr 2018 14:32

Tgt Ion	Ion	Ratio	Lower	Upper
57	100			
41	33.7	27.0	40.6	
56	30.8	24.1	36.1	





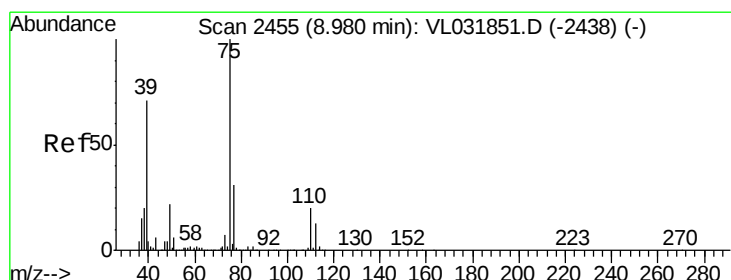
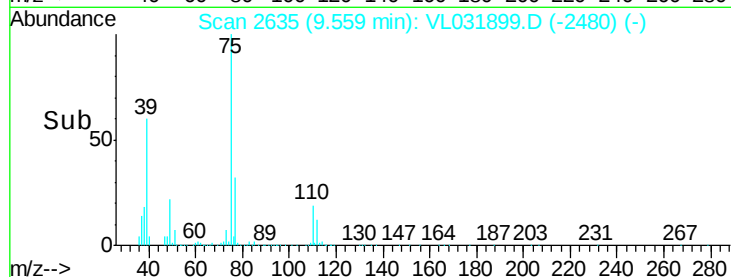
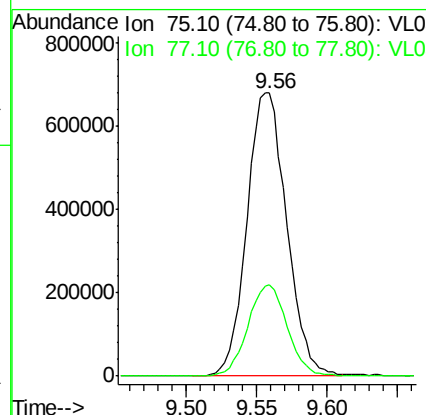
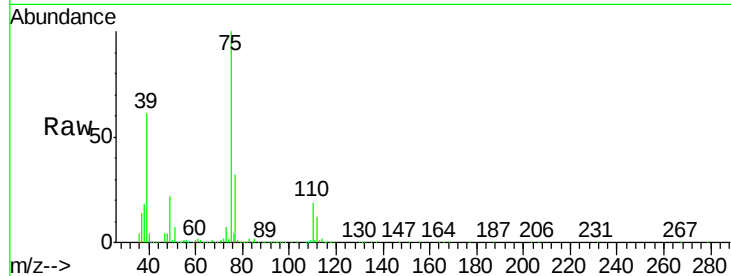
#45
t-1,3-Dichloropropene
Concen: 11.58 ppbv
RT: 9.56 min Scan# 2635
Delta R.T. -0.00 min
Lab File: VL031899.D
Acq: 20 Apr 2018 14:32

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion: 75 Resp: 1341540
Ion Ratio Lower Upper
75 100
77 32.2 25.1 37.7

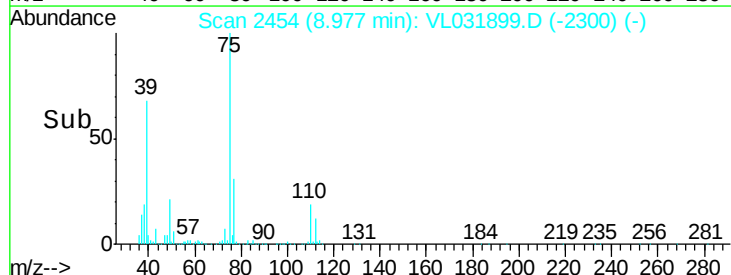
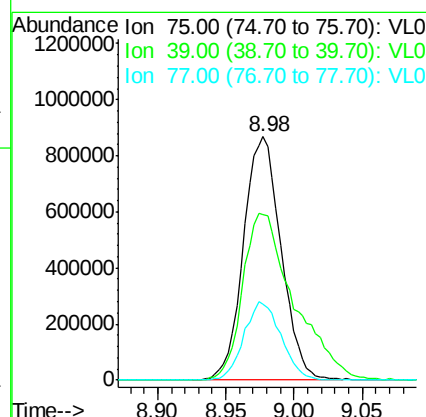
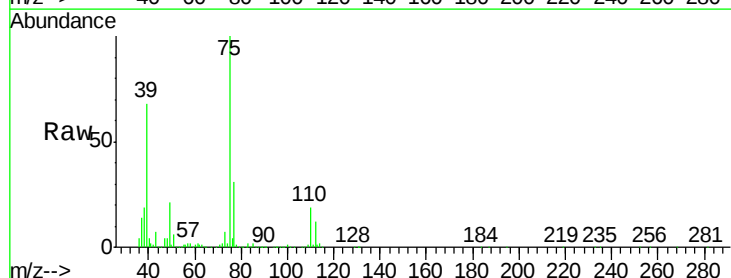
Manual Integrations
APPROVED

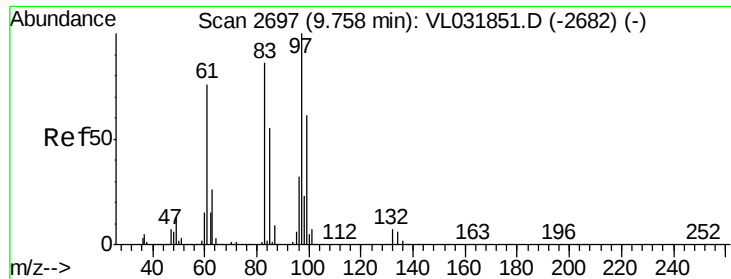
sam
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#46
cis-1,3-Dichloropropene
Concen: 11.22 ppbv
RT: 8.98 min Scan# 2454
Delta R.T. -0.00 min
Lab File: VL031899.D
Acq: 20 Apr 2018 14:32

Tgt Ion: 75 Resp: 1661009
Ion Ratio Lower Upper
75 100
39 68.1 58.6 87.8
77 31.1 26.8 40.2





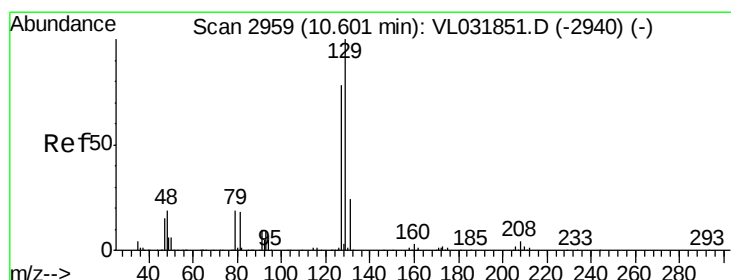
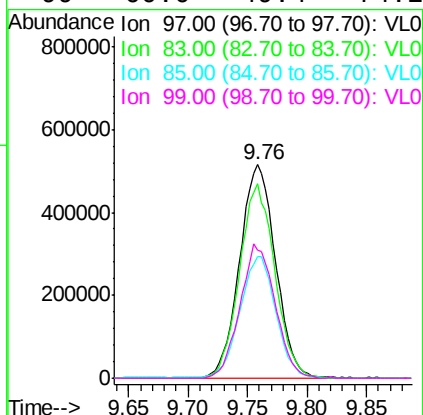
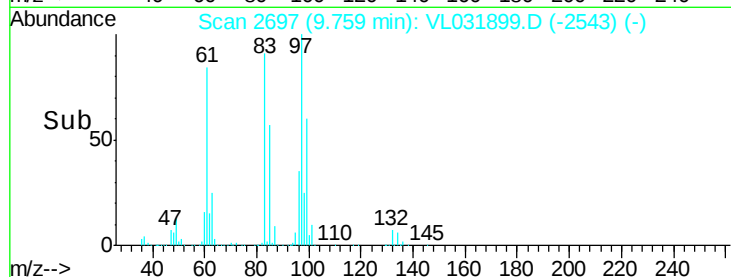
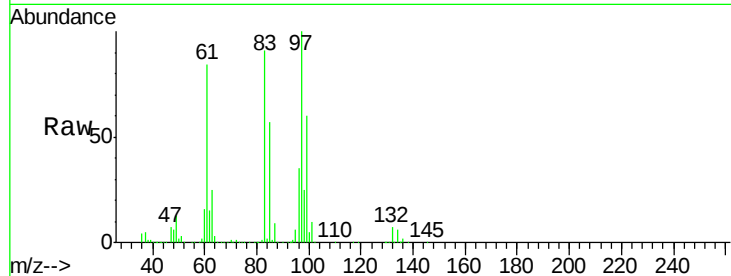
#47
 1,1,2-Trichloroethane
 Concen: 9.61 ppbv
 RT: 9.76 min Scan# 2697
 Delta R.T. -0.00 min
 Lab File: VL031899.D
 Acq: 20 Apr 2018 14:32

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion	Ion	Ratio	Lower	Upper
97	100			
83	90.7	69.1	103.7	
85	56.9	43.7	65.5	
99	60.0	49.4	74.2	

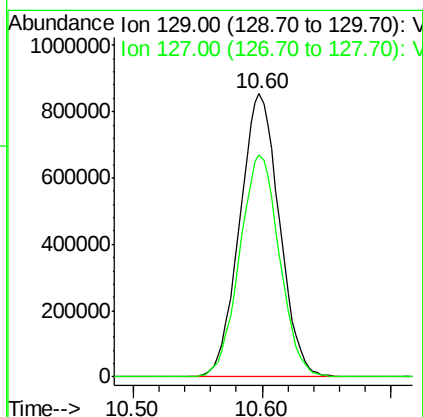
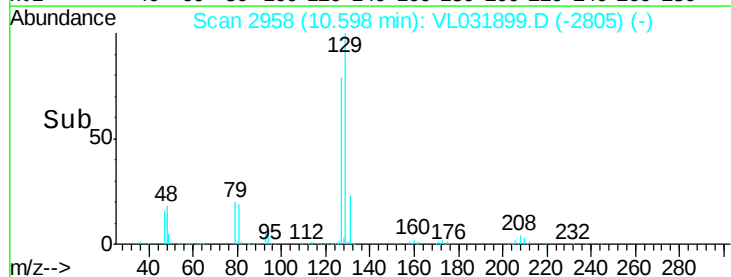
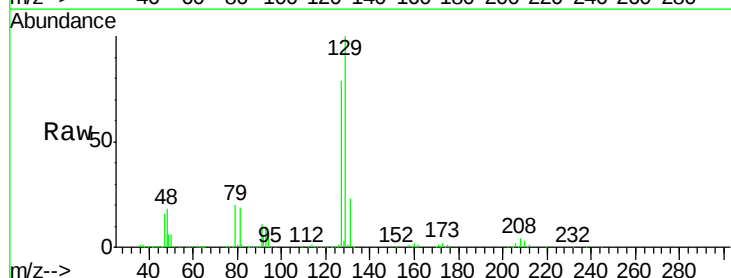
Manual Integrations
 APPROVED

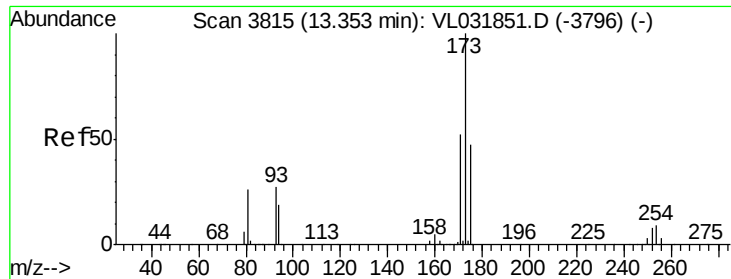
sam
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#48
 Dibromochloromethane
 Concen: 10.07 ppbv
 RT: 10.60 min Scan# 2958
 Delta R.T. -0.01 min
 Lab File: VL031899.D
 Acq: 20 Apr 2018 14:32

Tgt Ion	Ion	Ratio	Lower	Upper
129	100			
127	79.0	39.1	117.5	





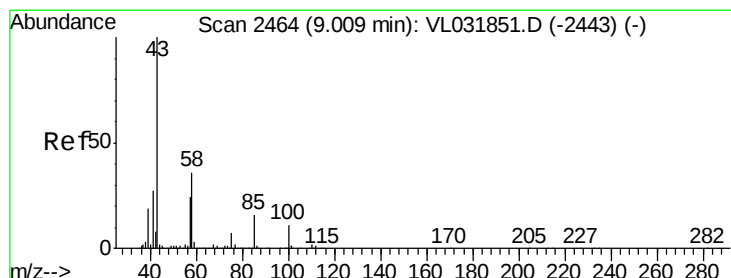
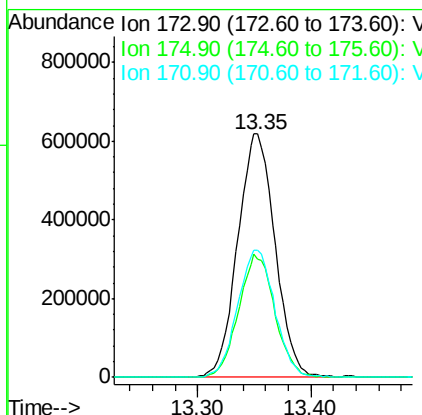
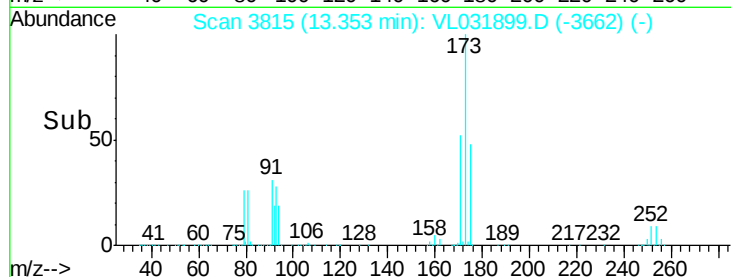
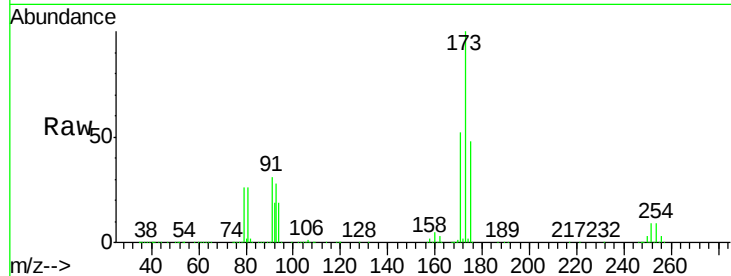
#49
Bromoform
Concen: 10.15 ppbv
RT: 13.35 min Scan# 3815
Delta R.T. -0.01 min
Lab File: VL031899.D
Acq: 20 Apr 2018 14:32

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion:173 Resp: 1416841
Ion Ratio Lower Upper
173 100
175 49.1 39.0 58.6
171 52.3 41.4 62.0

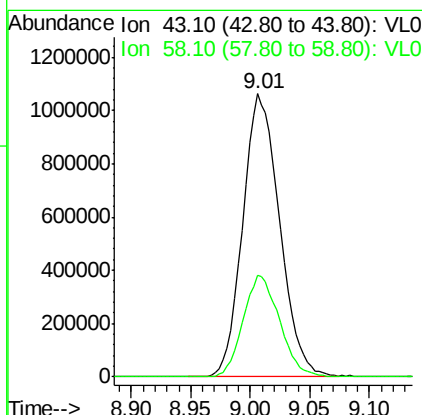
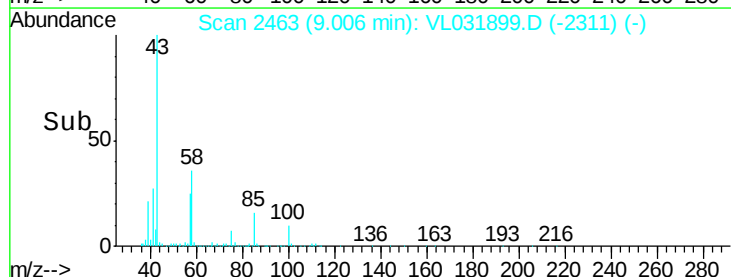
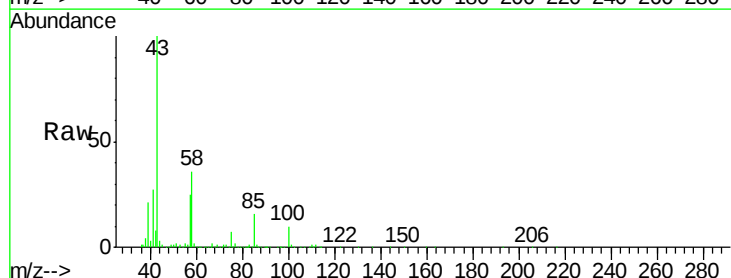
Manual Integrations
APPROVED

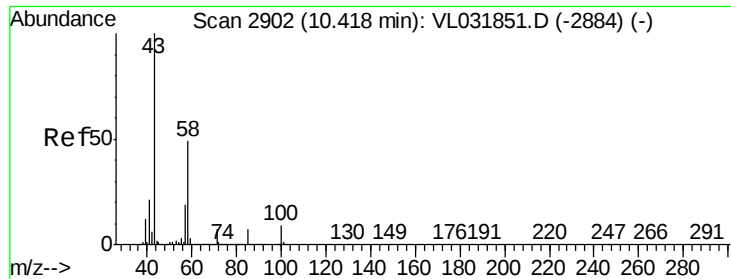
sam
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#50
4-Methyl-2-Pentanone
Concen: 10.17 ppbv
RT: 9.01 min Scan# 2463
Delta R.T. -0.01 min
Lab File: VL031899.D
Acq: 20 Apr 2018 14:32

Tgt Ion: 43 Resp: 2278242
Ion Ratio Lower Upper
43 100
58 35.6 28.6 43.0





#51

2-Hexanone

Concen: 10.87 ppbv

RT: 10.41 min Scan# 2900

Delta R.T. -0.01 min

Lab File: VL031899.D

Acq: 20 Apr 2018 14:32

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 43 Resp: 2128950

Ion Ratio Lower Upper

43 100

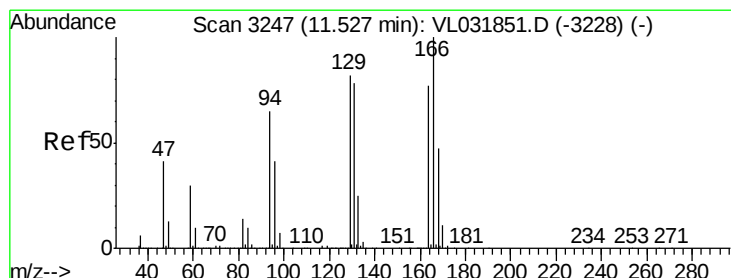
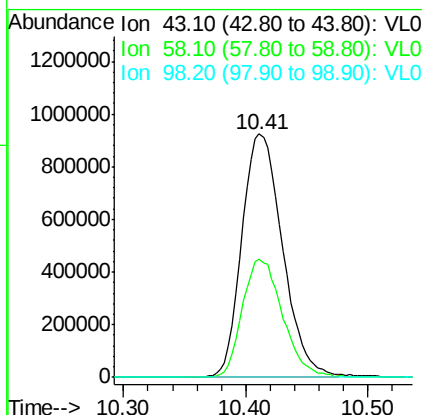
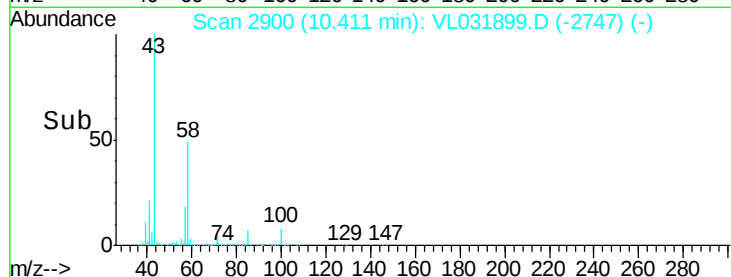
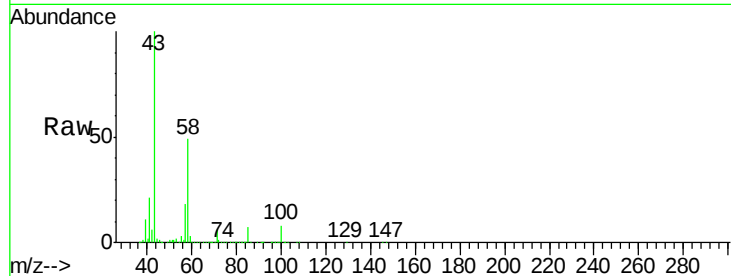
58 48.1 38.5 57.7

98 0.4 0.2 0.4#

Manual Integrations
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#52

Tetrachloroethene

Concen: 9.70 ppbv

RT: 11.52 min Scan# 3245

Delta R.T. -0.00 min

Lab File: VL031899.D

Acq: 20 Apr 2018 14:32

Tgt Ion: 164 Resp: 959285

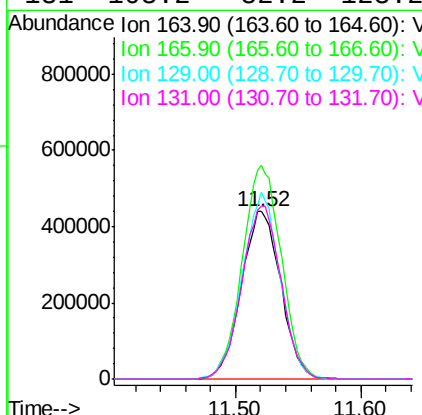
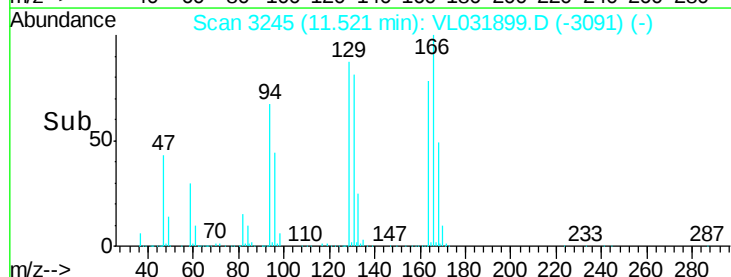
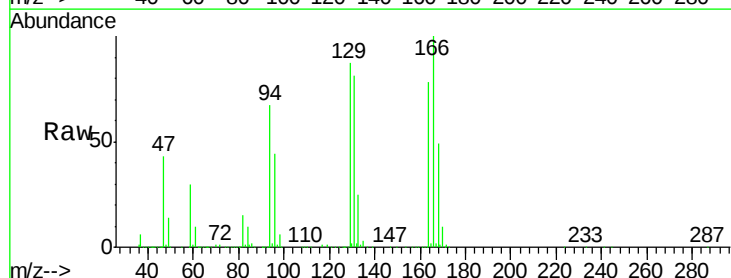
Ion Ratio Lower Upper

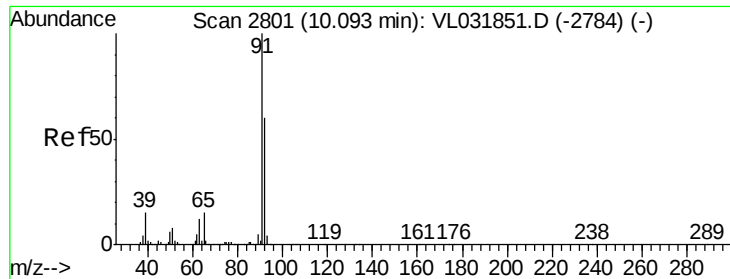
164 100

166 127.4 98.2 147.4

129 111.4 86.5 129.7

131 103.2 82.2 123.2





#53

Toluene

Concen: 10.70 ppbv

RT: 10.09 min Scan# 2800

Delta R.T. -0.00 min

Lab File: VL031899.D

Acq: 20 Apr 2018 14:32

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 91 Resp: 3028762

Ion Ratio Lower Upper

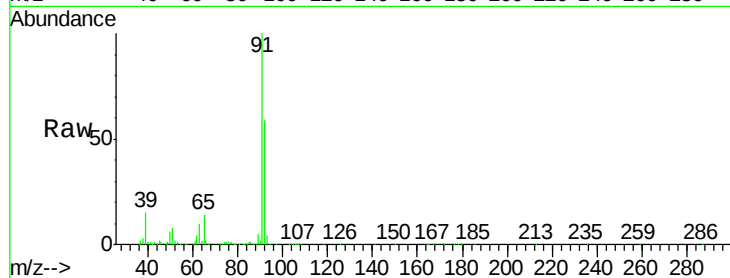
91 100

92 59.3 47.4 71.2

Manual Integrations
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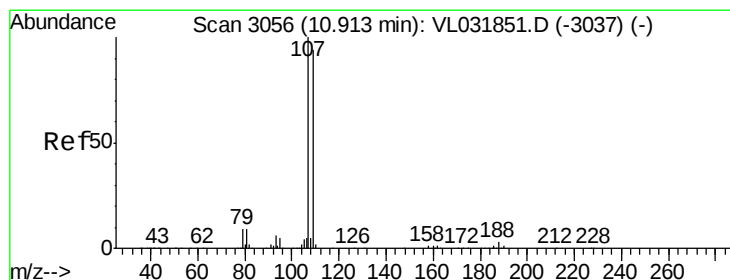
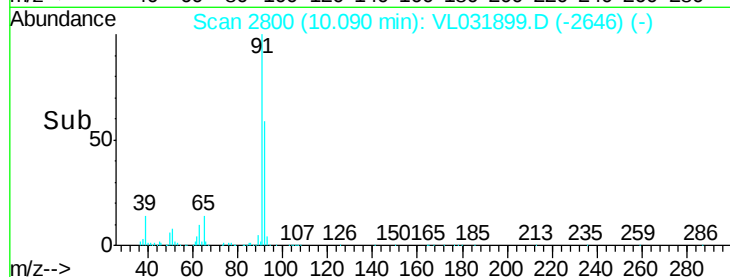
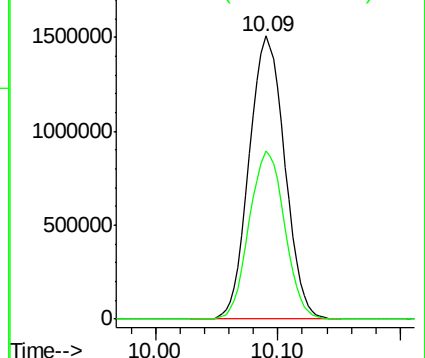
sam

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Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0



#54

1,2-Dibromoethane

Concen: 10.06 ppbv

RT: 10.91 min Scan# 3054

Delta R.T. -0.00 min

Lab File: VL031899.D

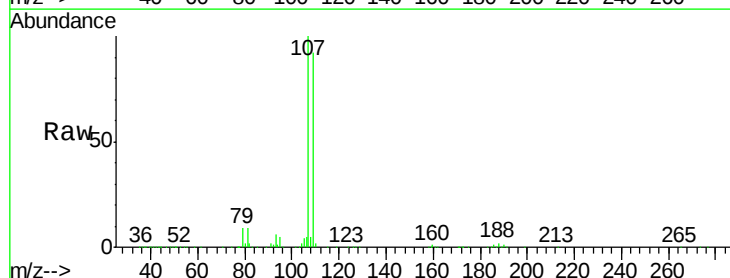
Acq: 20 Apr 2018 14:32

Tgt Ion:107 Resp: 1636757

Ion Ratio Lower Upper

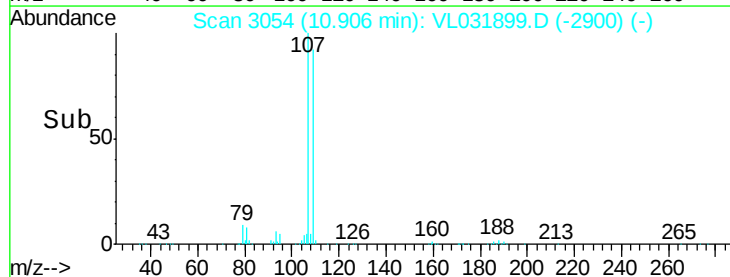
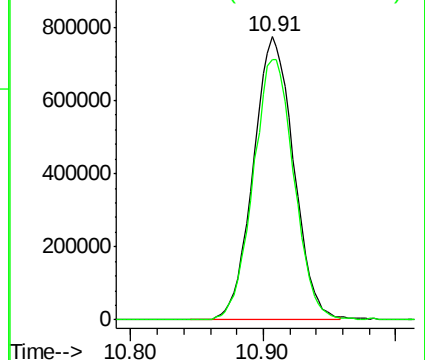
107 100

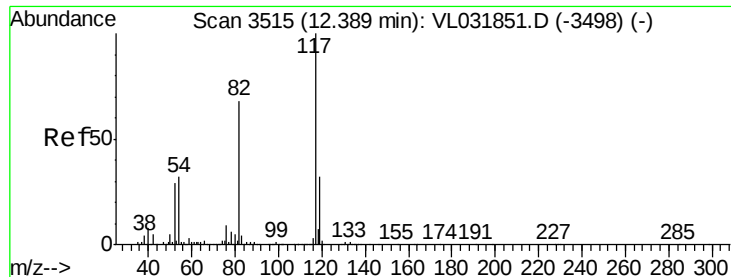
109 92.0 74.6 112.0



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V





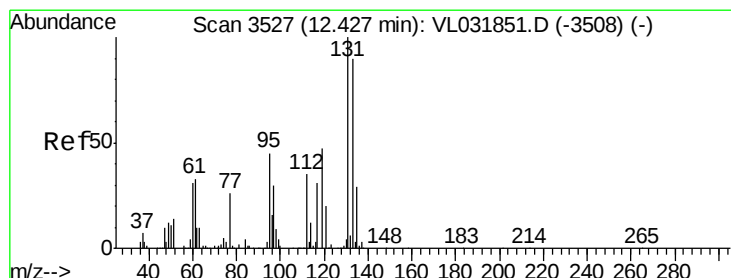
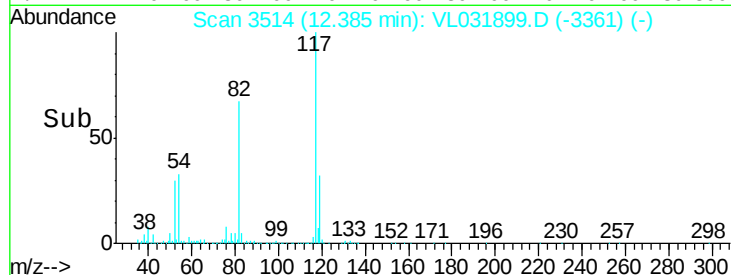
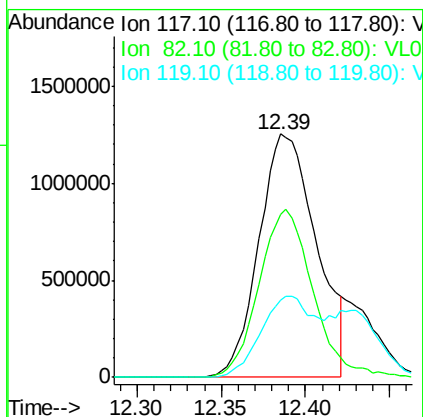
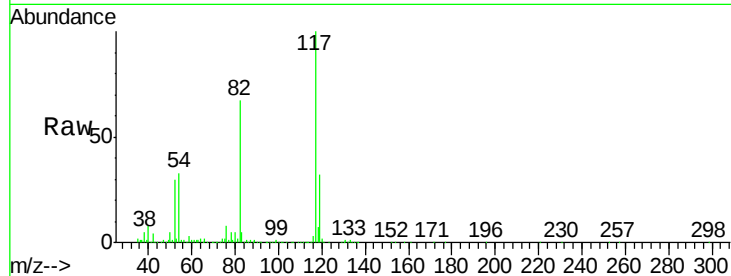
#55
Chlorobenzene-d5
Concen: 10.00 ppbv m
RT: 12.39 min Scan# 3514
Delta R.T. -0.01 min
Lab File: VL031899.D
Acq: 20 Apr 2018 14:32

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
117	100		
82	65.1	54.6	81.8
119	31.9	26.0	39.0

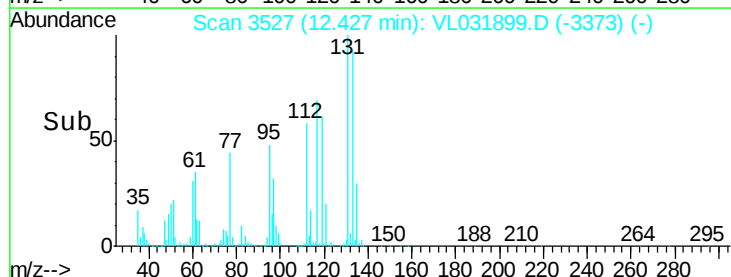
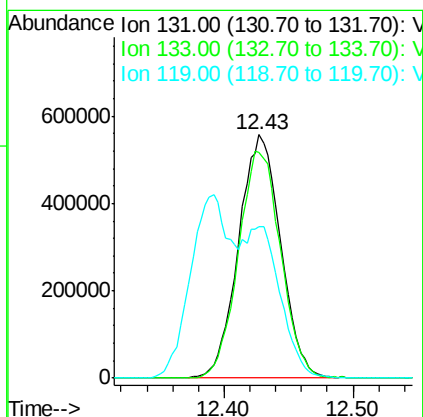
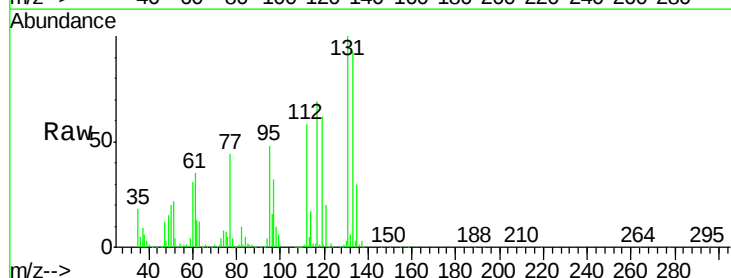
Manual Integrations
APPROVED

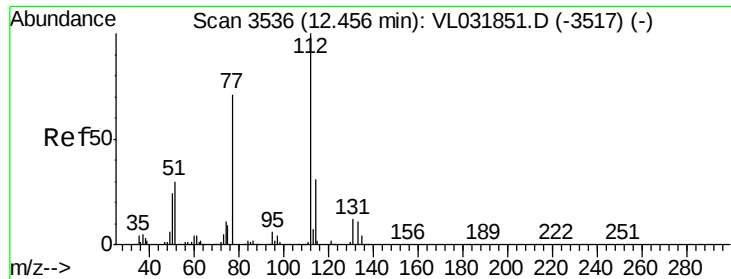
sam
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#56
1,1,1,2-Tetrachloroethane
Concen: 9.02 ppbv
RT: 12.43 min Scan# 3527
Delta R.T. -0.00 min
Lab File: VL031899.D
Acq: 20 Apr 2018 14:32

Tgt Ion	Ratio	Lower	Upper
131	100		
133	94.5	76.1	114.1
119	130.1	106.3	159.5





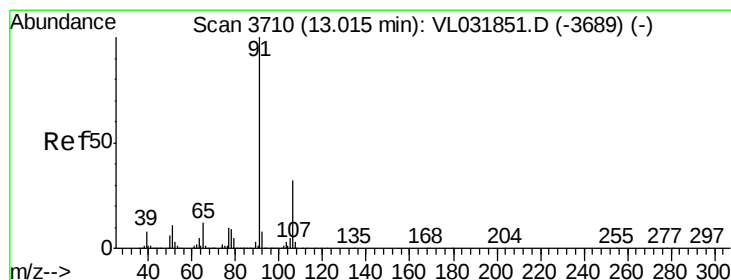
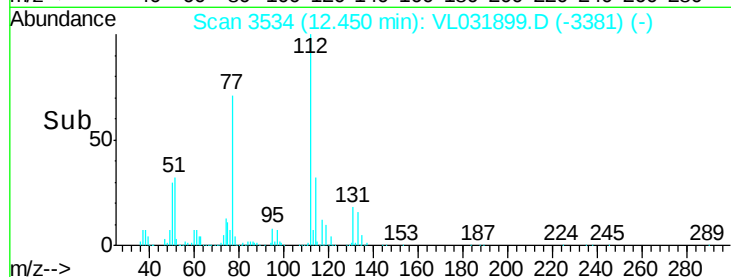
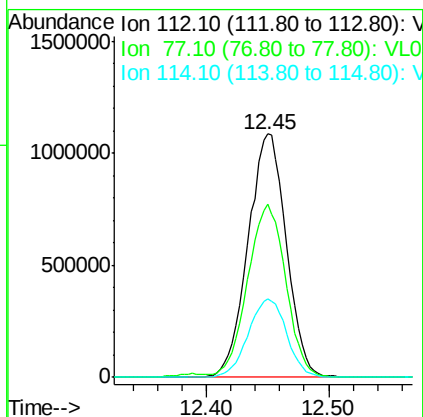
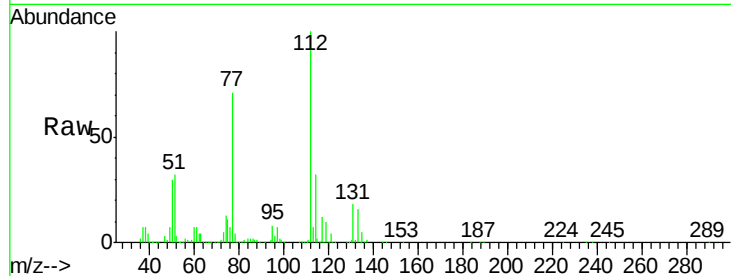
#57
Chlorobenzene
Concen: 9.33 ppbv
RT: 12.45 min Scan# 3534
Delta R.T. -0.01 min
Lab File: VL031899.D
Acq: 20 Apr 2018 14:32

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
112	100		
77	70.9	57.0	85.6
114	32.3	28.5	34.9

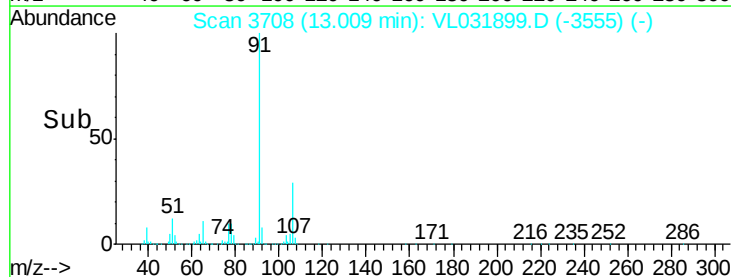
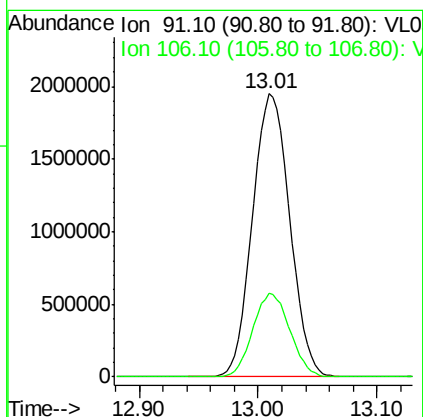
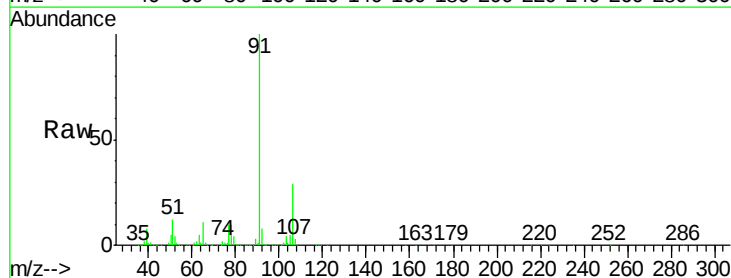
Manual Integrations
APPROVED

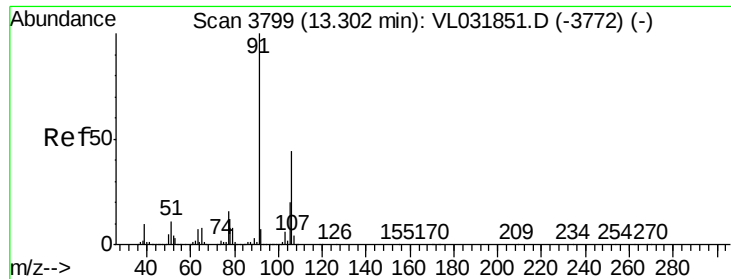
sam
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#58
Ethyl Benzene
Concen: 10.27 ppbv
RT: 13.01 min Scan# 3708
Delta R.T. -0.01 min
Lab File: VL031899.D
Acq: 20 Apr 2018 14:32

Tgt Ion	Ratio	Lower	Upper
91	100		
106	29.4	23.8	35.6





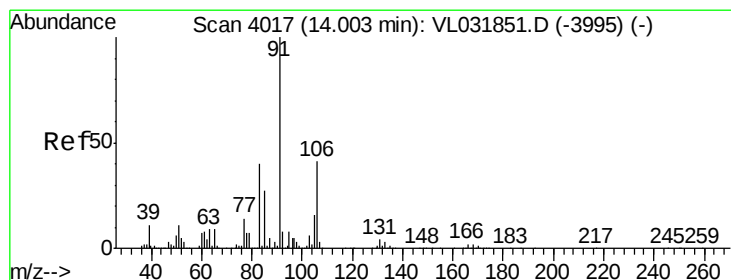
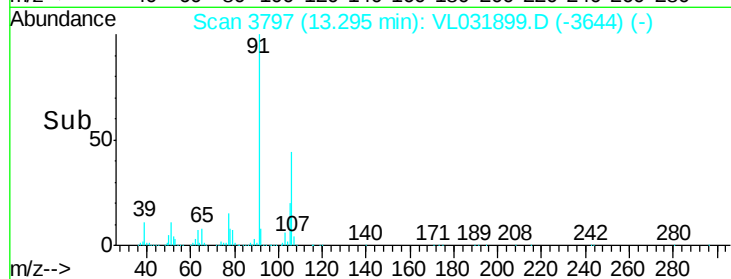
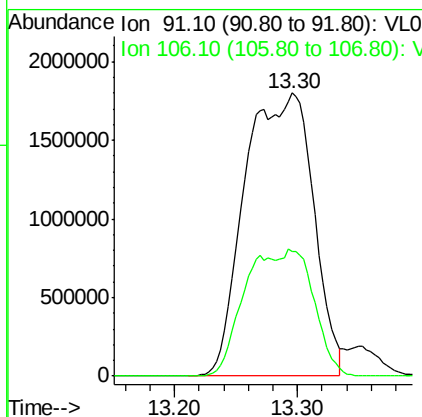
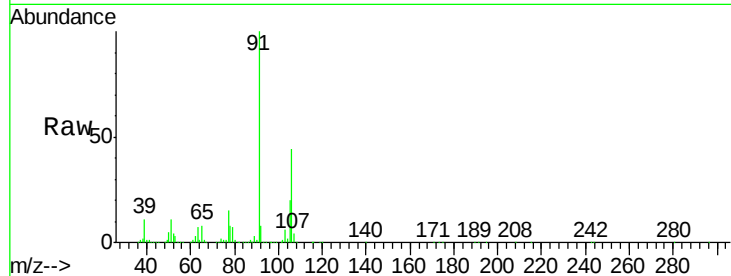
#59
m/p-Xylene
Concen: 19.42 ppbv m
RT: 13.30 min Scan# 3797
Delta R.T. -0.01 min
Lab File: VL031899.D
Acq: 20 Apr 2018 14:32

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion: 91 Resp: 6945031
Ion Ratio Lower Upper
91 100
106 44.9 35.5 53.3

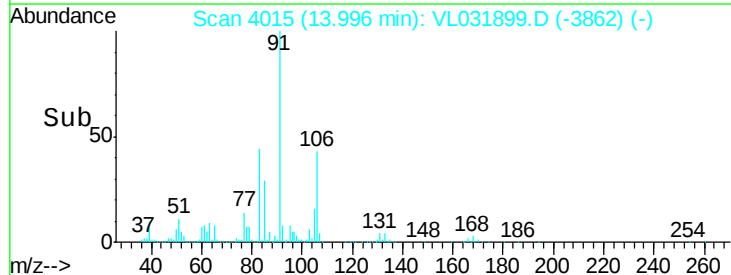
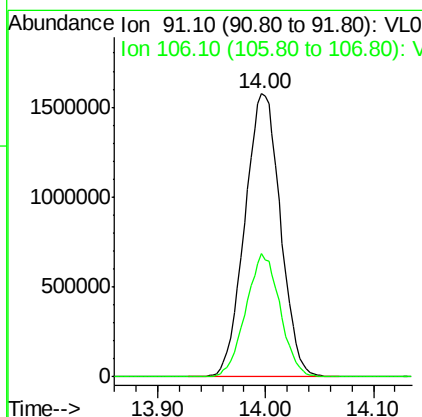
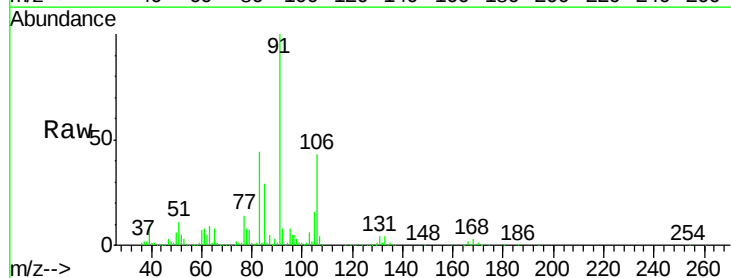
Manual Integrations
APPROVED

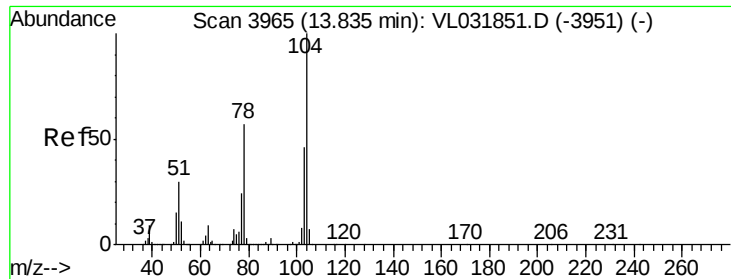
sam
4/23/2018 12:50:54 PM



#60
o-Xylene
Concen: 10.10 ppbv
RT: 14.00 min Scan# 4015
Delta R.T. -0.01 min
Lab File: VL031899.D
Acq: 20 Apr 2018 14:32

Tgt Ion: 91 Resp: 3609741
Ion Ratio Lower Upper
91 100
106 41.9 21.3 63.9





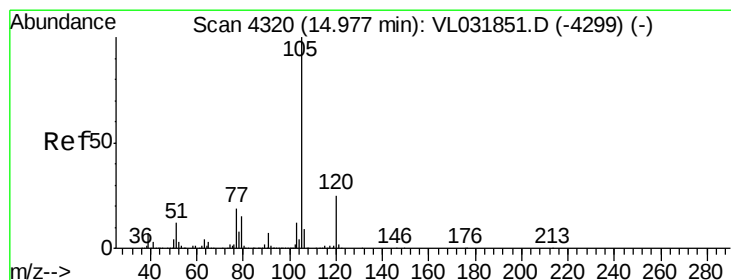
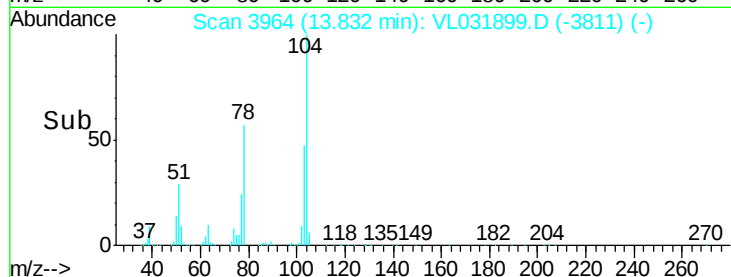
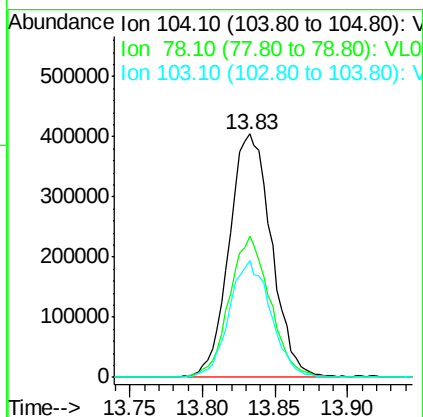
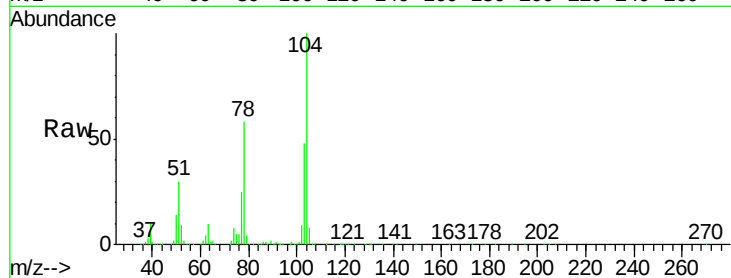
#61
Stvrene
Concen: 11.94 ppbv
RT: 13.83 min Scan# 3964
Delta R.T. -0.01 min
Lab File: VL031899.D
Acq: 20 Apr 2018 14:32

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
104	100		
78	56.9	44.4	66.6
103	47.7	37.9	56.9

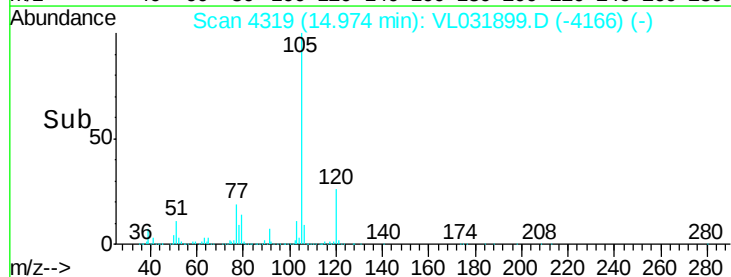
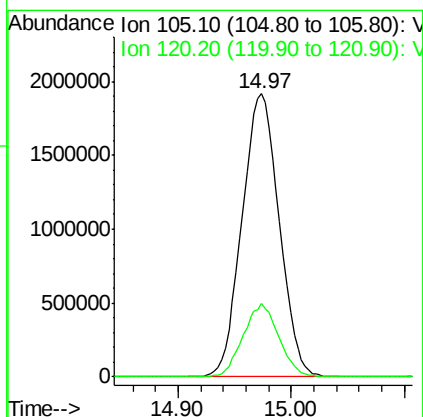
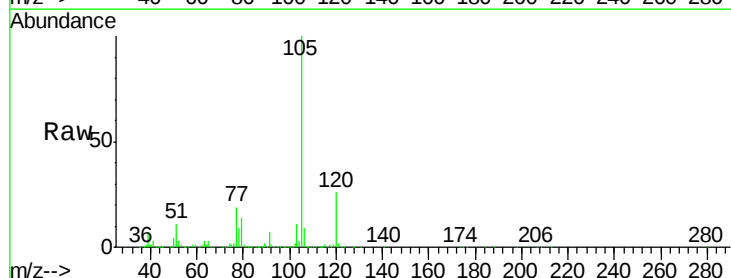
Manual Integrations
APPROVED

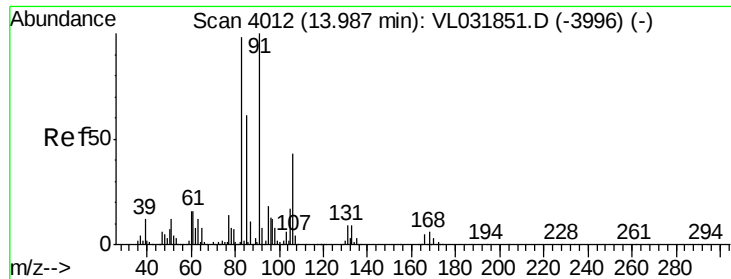
sam
4/23/2018 12:50:54 PM



#62
Isopropylbenzene
Concen: 9.52 ppbv
RT: 14.97 min Scan# 4319
Delta R.T. -0.01 min
Lab File: VL031899.D
Acq: 20 Apr 2018 14:32

Tgt Ion	Ratio	Lower	Upper
105	100		
120	24.8	19.4	29.2





#63

1,1,2,2-Tetrachloroethane

Concen: 8.30 ppbv

RT: 13.98 min Scan# 4011

Delta R.T. -0.01 min

Lab File: VL031899.D

Acq: 20 Apr 2018 14:32

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 83 Resp: 2281932

Ion Ratio Lower Upper

83 100

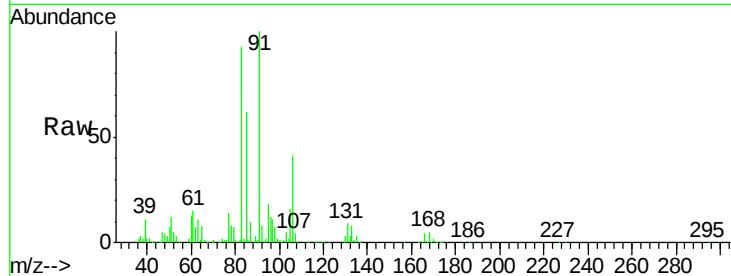
131 9.3 4.9 14.6

85 65.2 32.2 96.6

Manual Integrations
APPROVED

sam

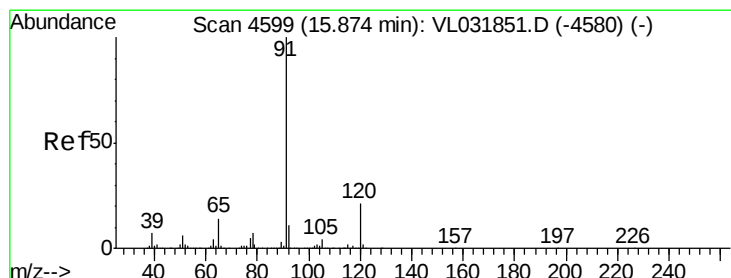
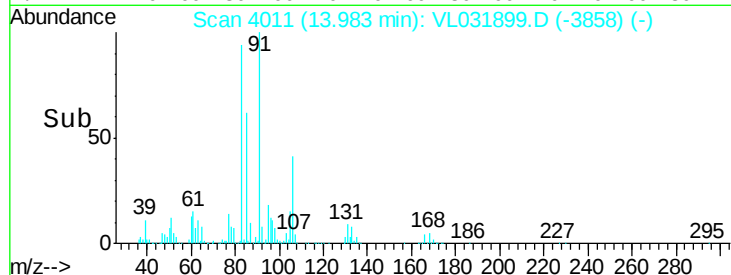
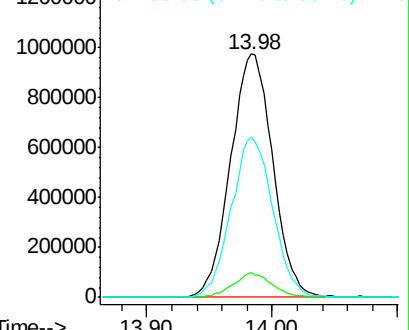
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Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 131.00 (130.70 to 131.70): V

Ion 85.00 (84.70 to 85.70): VL0



#64

n-propylbenzene

Concen: 9.73 ppbv

RT: 15.87 min Scan# 4597

Delta R.T. -0.01 min

Lab File: VL031899.D

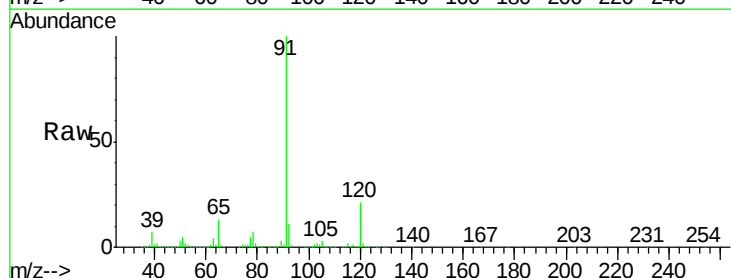
Acq: 20 Apr 2018 14:32

Tgt Ion:120 Resp: 1086096

Ion Ratio Lower Upper

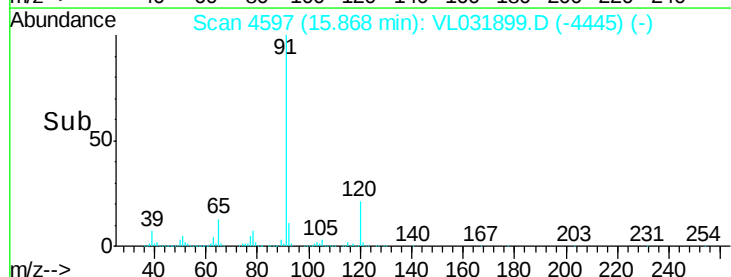
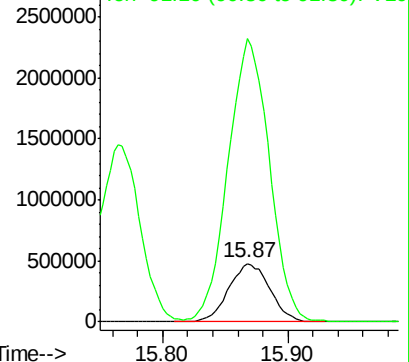
120 100

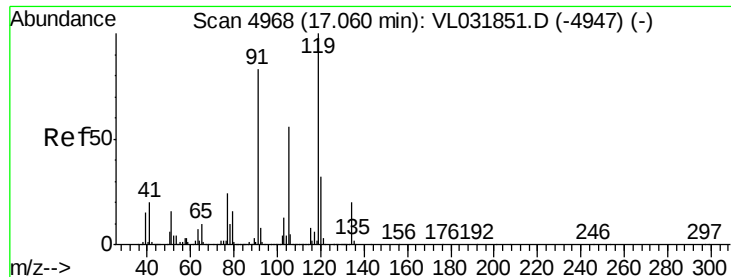
91 489.4 393.7 590.5



Abundance Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0





#65

tert-Butylbenzene

Concen: 9.14 ppbv

RT: 17.05 min Scan# 4968

Delta R.T. -0.01 min

Lab File: VL031899.D

Acq: 20 Apr 2018 14:32

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion:119 Resp: 3611481

Ion Ratio Lower Upper

119 100

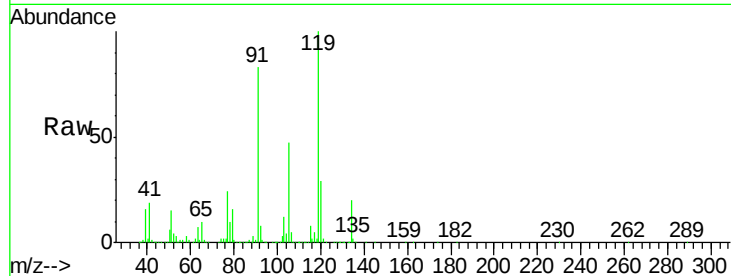
91 86.3 69.4 104.0

134 19.4 15.4 23.2

Manual Integrations
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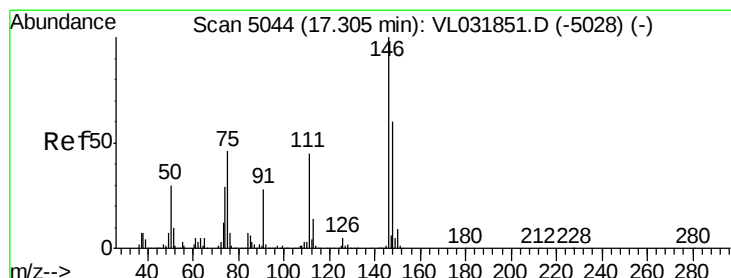
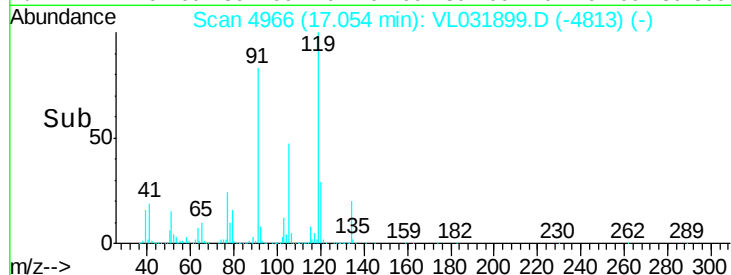
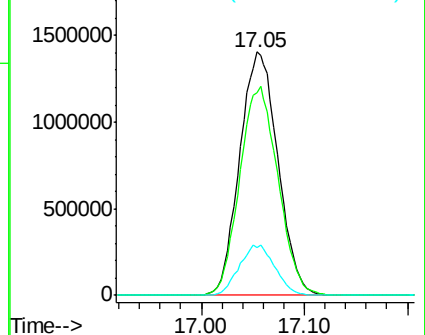
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Abundance Ion 119.20 (118.90 to 119.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 134.20 (133.90 to 134.90): V



#66

Benzyl Chloride

Concen: 10.02 ppbv

RT: 17.30 min Scan# 5043

Delta R.T. -0.01 min

Lab File: VL031899.D

Acq: 20 Apr 2018 14:32

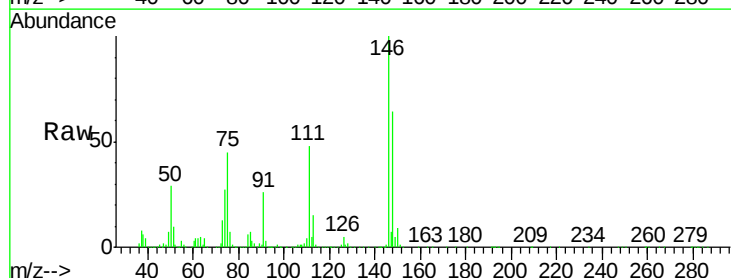
Tgt Ion: 91 Resp: 356683

Ion Ratio Lower Upper

91 100

126 15.9 12.6 19.0

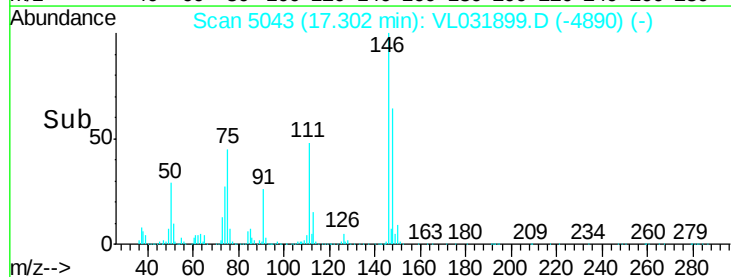
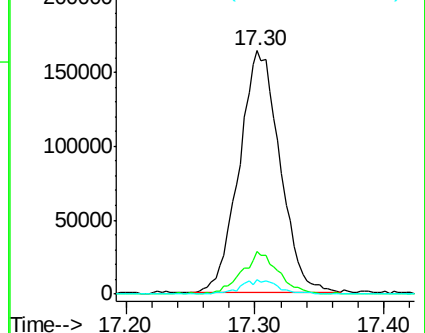
128 5.5 4.0 6.0

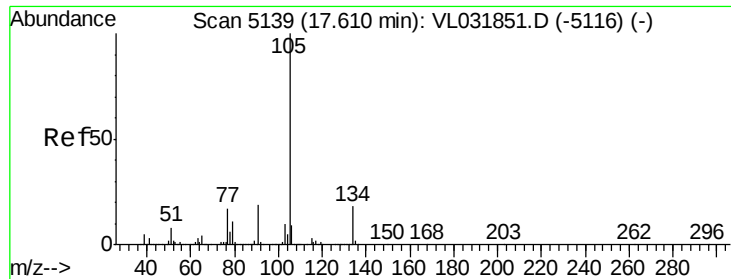


Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V

Ion 128.10 (127.80 to 128.80): V





#67

sec-Butylbenzene

Concen: 9.04 ppbv

RT: 17.61 min Scan# 5138

Delta R.T. -0.00 min

Lab File: VL031899.D

Acq: 20 Apr 2018 14:32

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 105 Resp: 5144789

Ion Ratio Lower Upper

105 100

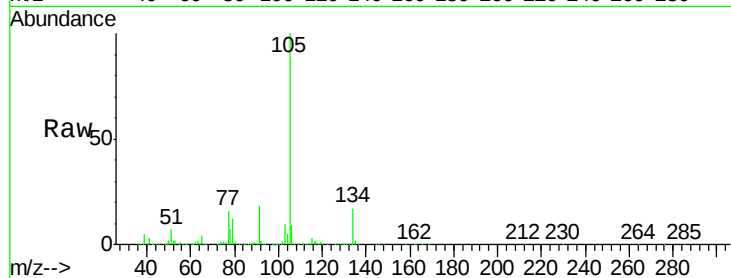
134 17.6 14.2 21.2

Manual Integrations

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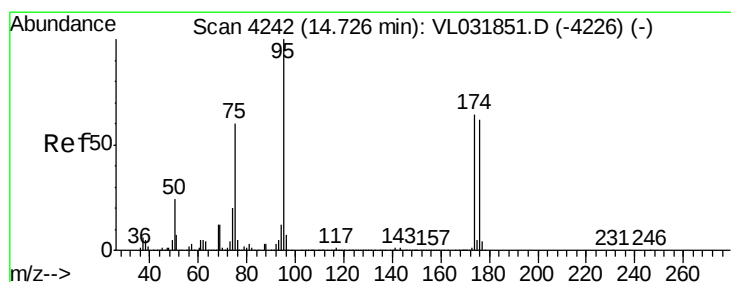
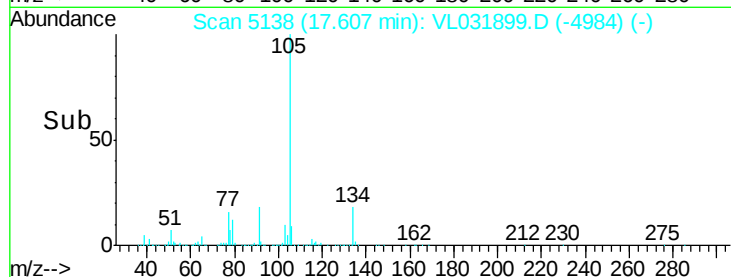
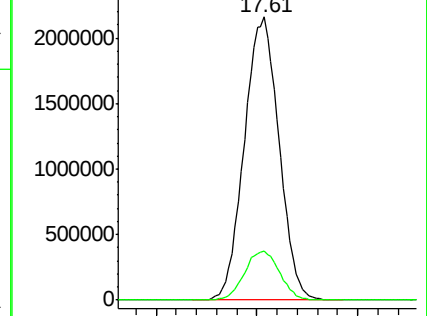
sam

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Abundance Ion 105.10 (104.80 to 105.80): V

Ion 134.20 (133.90 to 134.90): V



#68

1-Bromo-4-Fluorobenzene

Concen: 9.76 ppbv

RT: 14.72 min Scan# 4241

Delta R.T. -0.01 min

Lab File: VL031899.D

Acq: 20 Apr 2018 14:32

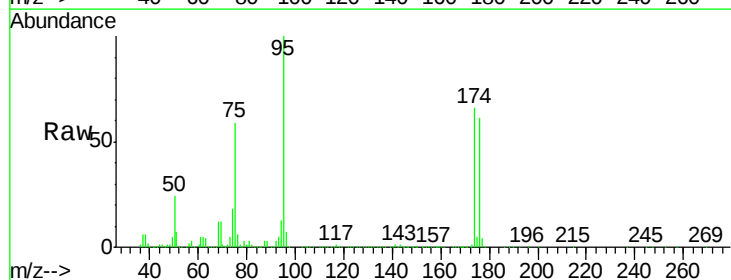
Tgt Ion: 95 Resp: 2327620

Ion Ratio Lower Upper

95 100

174 64.7 52.3 78.5

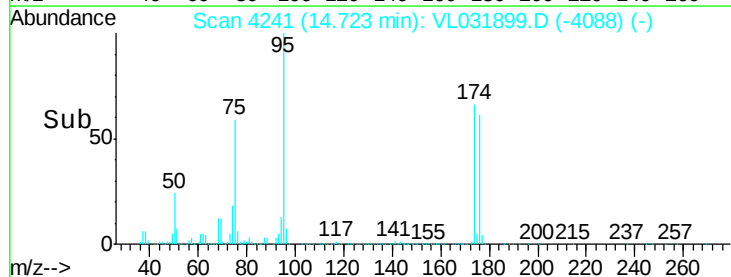
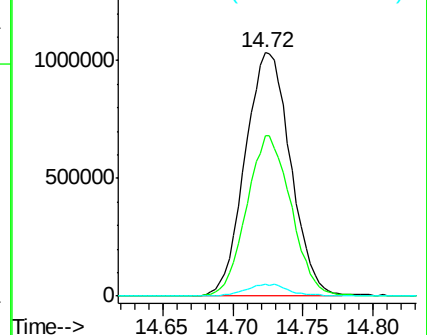
175 4.6 3.9 5.9

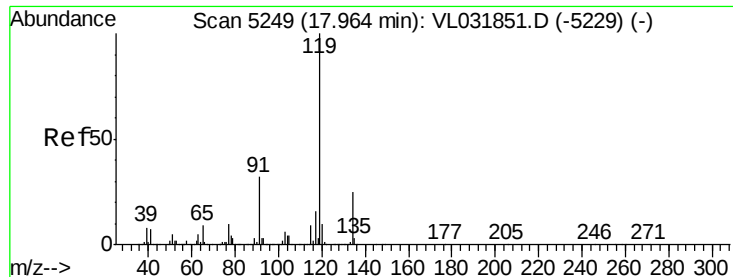


Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V





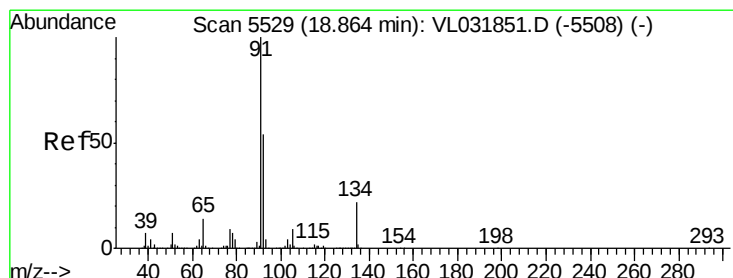
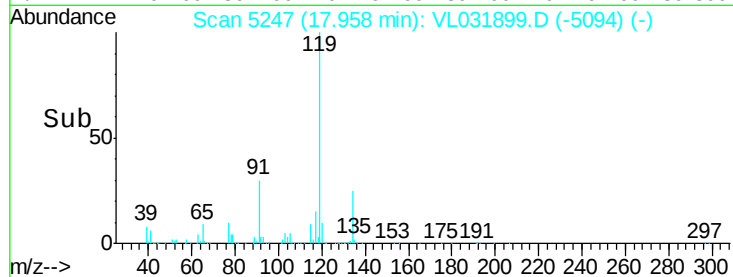
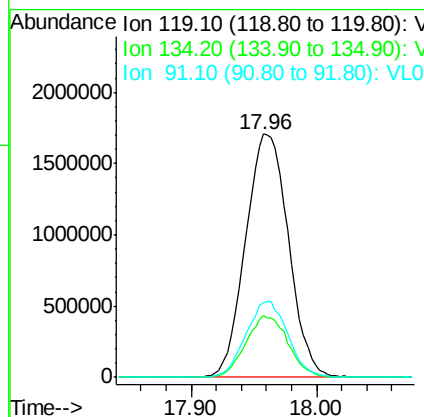
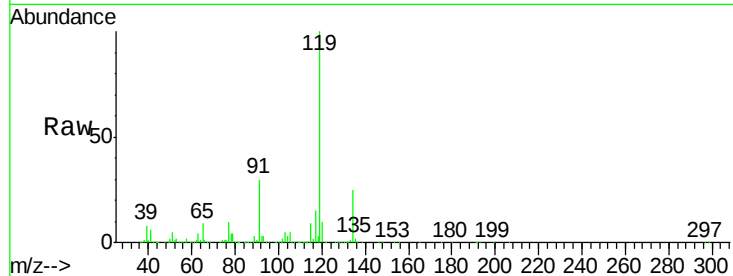
#69
p-Isopropyltoluene
Concen: 9.20 ppbv
RT: 17.96 min Scan# 5247
Delta R.T. -0.01 min
Lab File: VL031899.D
Acq: 20 Apr 2018 14:32

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
119	100		
134	24.8	20.0	30.0
91	30.5	24.9	37.3

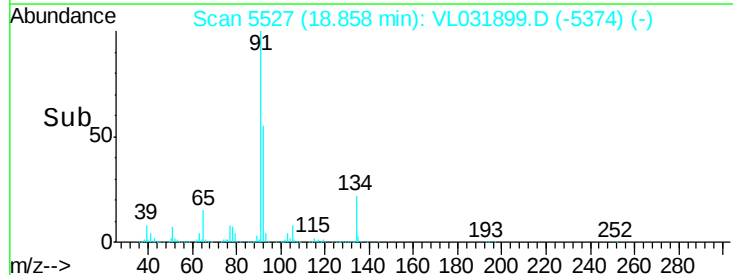
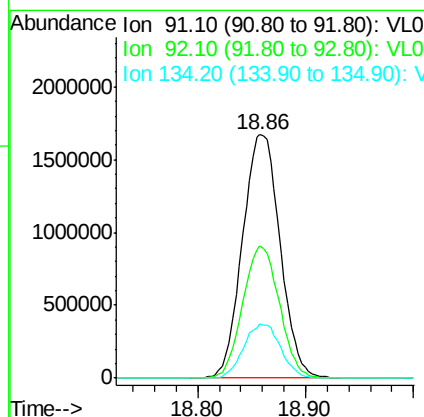
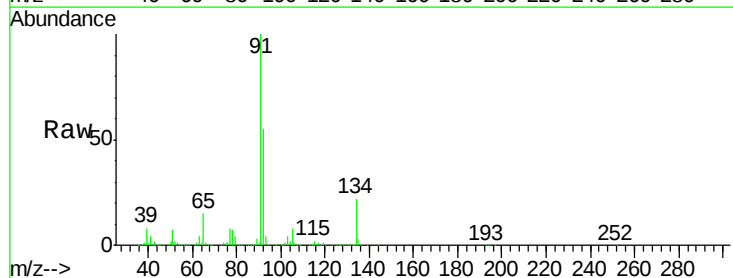
Manual Integrations
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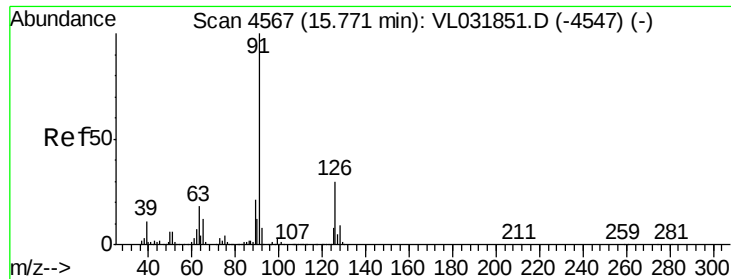
sam
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#70
n-Butylbenzene
Concen: 8.83 ppbv
RT: 18.86 min Scan# 5527
Delta R.T. -0.01 min
Lab File: VL031899.D
Acq: 20 Apr 2018 14:32

Tgt Ion	Ratio	Lower	Upper
91	100		
92	52.8	42.2	63.4
134	21.8	17.4	26.0





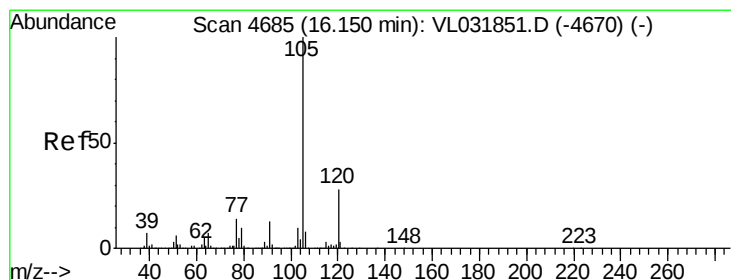
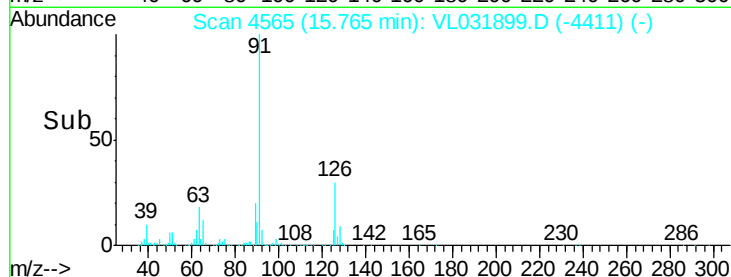
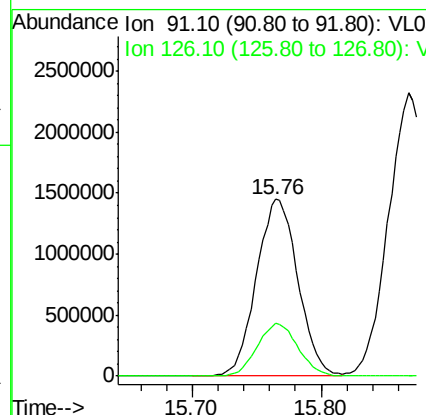
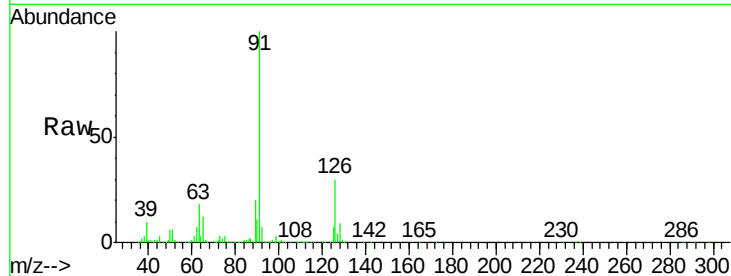
#71
 2-Chlorotoluene
 Concen: 9.79 ppbv
 RT: 15.76 min Scan# 4565
 Delta R.T. -0.00 min
 Lab File: VL031899.D
 Acq: 20 Apr 2018 14:32

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion: 91 Resp: 3252106
 Ion Ratio Lower Upper
 91 100
 126 29.4 11.6 46.2

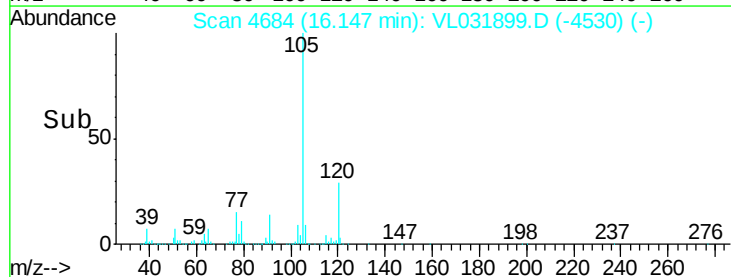
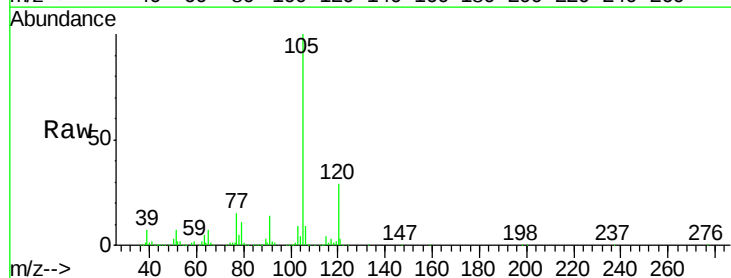
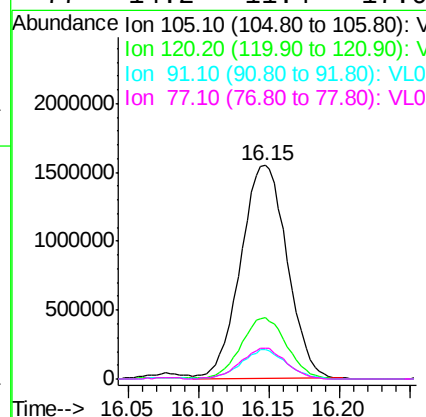
Manual Integrations
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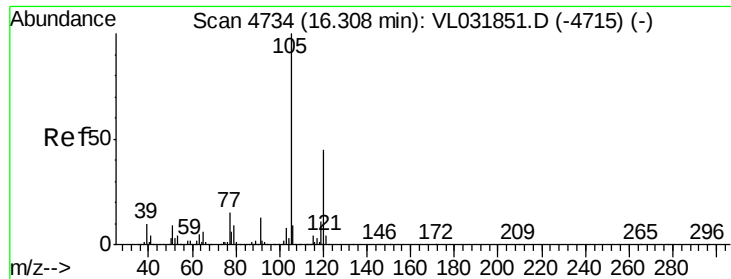
sam
 4/23/2018 12:50:54 PM



#72
 4-Ethyltoluene
 Concen: 9.75 ppbv
 RT: 16.15 min Scan# 4684
 Delta R.T. -0.00 min
 Lab File: VL031899.D
 Acq: 20 Apr 2018 14:32

Tgt Ion: 105 Resp: 3564390
 Ion Ratio Lower Upper
 105 100
 120 28.3 22.7 34.1
 91 13.8 10.6 16.0
 77 14.2 11.4 17.0





#73

1,3,5-Trimethylbenzene

Concen: 9.36 ppbv

RT: 16.30 min Scan# 4733

Delta R.T. -0.00 min

Lab File: VL031899.D

Acq: 20 Apr 2018 14:32

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion:105 Resp: 3131507

Ion Ratio Lower Upper

105 100

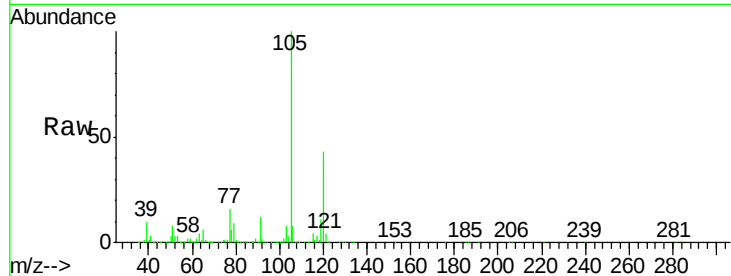
120 43.3 35.3 52.9

Manual Integrations

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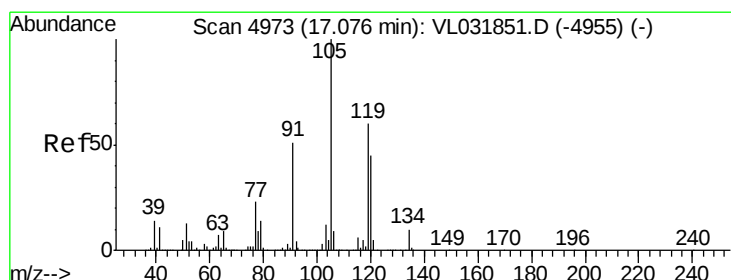
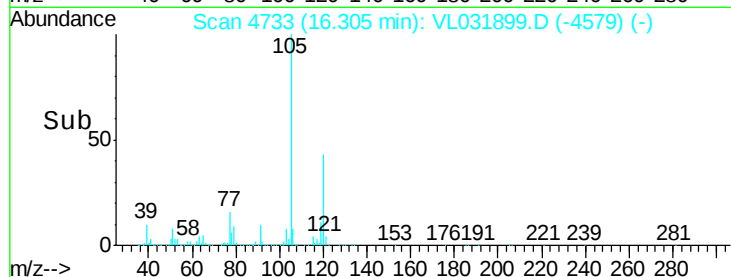
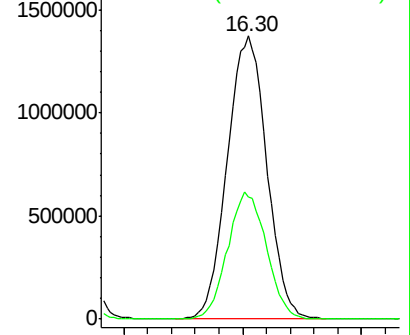
sam

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Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V



#74

1,2,4-Trimethylbenzene

Concen: 8.79 ppbv

RT: 17.07 min Scan# 4972

Delta R.T. -0.00 min

Lab File: VL031899.D

Acq: 20 Apr 2018 14:32

Tgt Ion:105 Resp: 3283473

Ion Ratio Lower Upper

105 100

120 46.3 37.0 55.4

91 50.1 43.0 64.4

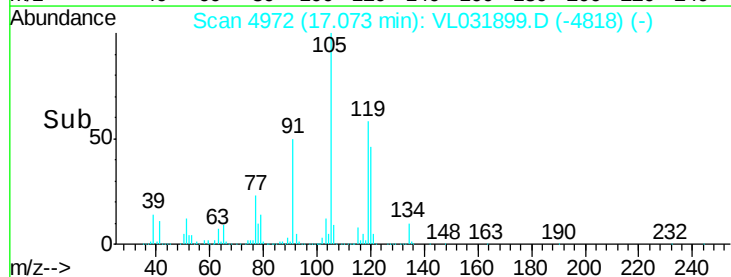
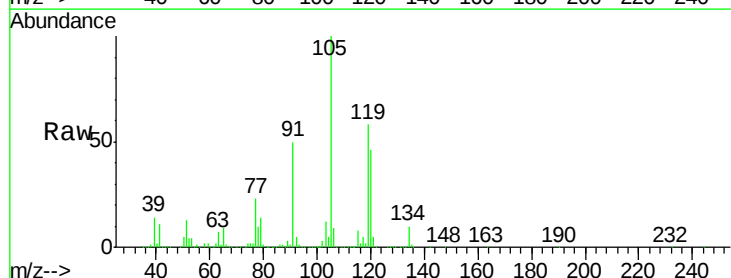
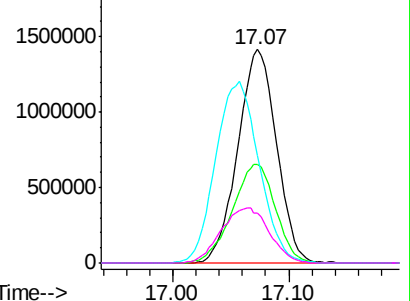
77 23.1 18.7 28.1

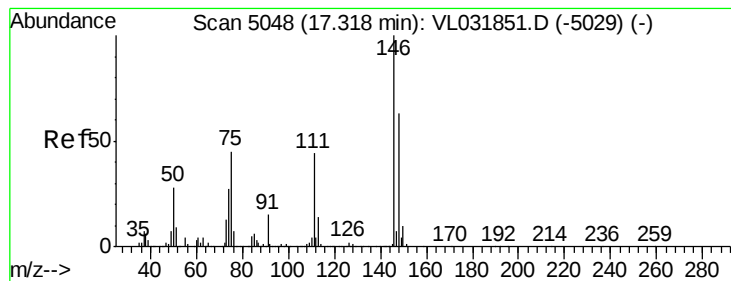
Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): V

Ion 77.10 (76.80 to 77.80): V





#75

1,3-Dichlorobenzene

Concen: 8.74 ppbv

RT: 17.31 min Scan# 5046

Delta R.T. -0.01 min

Lab File: VL031899.D

Acq: 20 Apr 2018 14:32

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion:146 Resp: 2001594

Ion Ratio Lower Upper

146 100

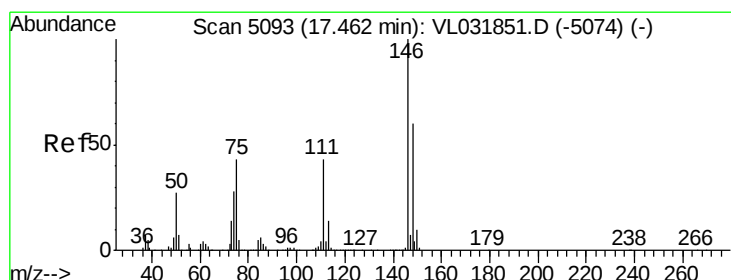
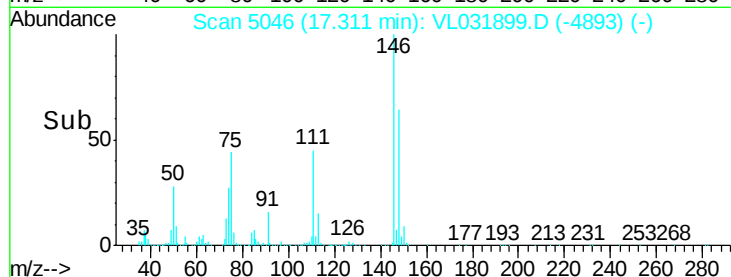
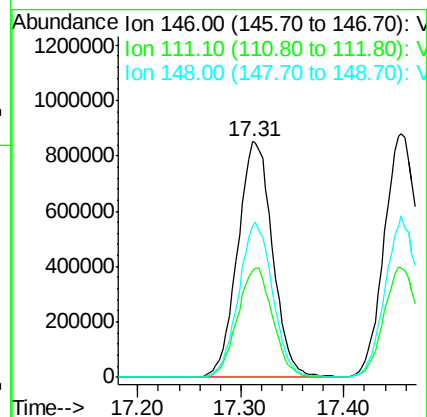
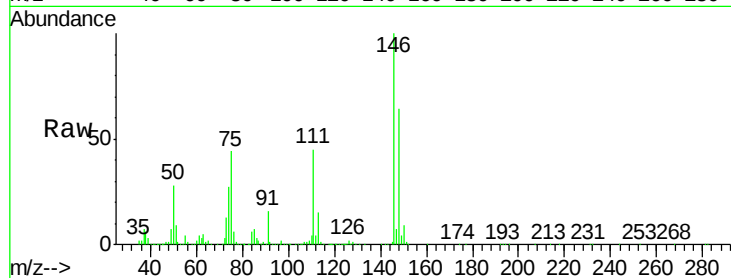
111 47.0 23.8 71.4

148 64.3 32.0 96.2

Manual Integrations
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sam

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#76

1,4-Dichlorobenzene

Concen: 9.08 ppbv

RT: 17.46 min Scan# 5091

Delta R.T. -0.01 min

Lab File: VL031899.D

Acq: 20 Apr 2018 14:32

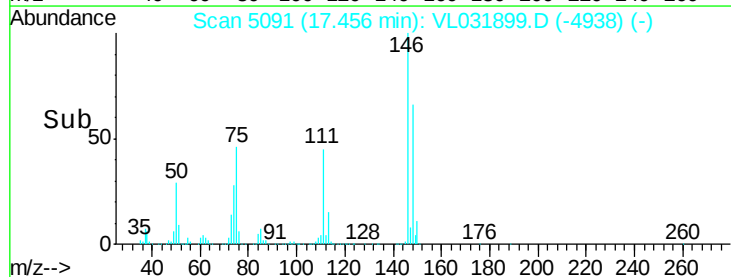
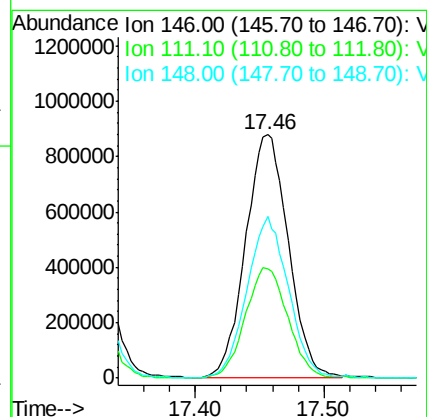
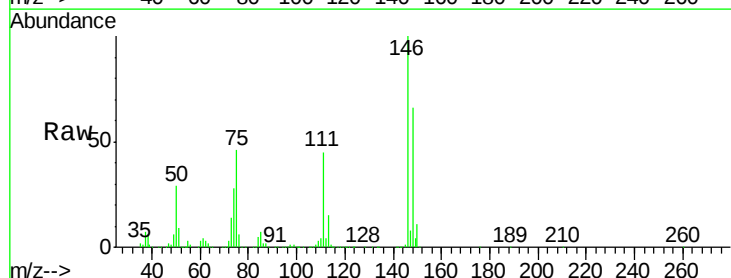
Tgt Ion:146 Resp: 2017746

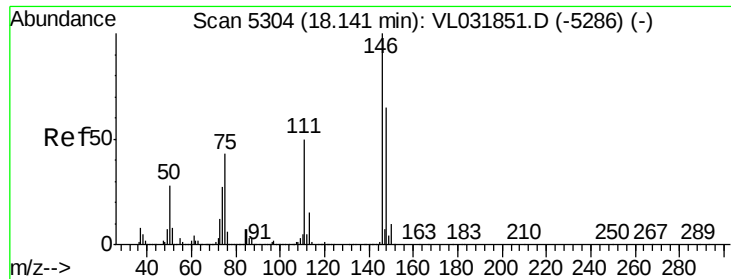
Ion Ratio Lower Upper

146 100

111 45.4 22.9 68.7

148 64.8 32.0 96.0





#77

1,2-Dichlorobenzene

Concen: 8.53 ppbv

RT: 18.14 min Scan# 5304

Delta R.T. -0.00 min

Lab File: VL031899.D

Acq: 20 Apr 2018 14:32

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion:146 Resp: 1923877

Ion Ratio Lower Upper

146 100

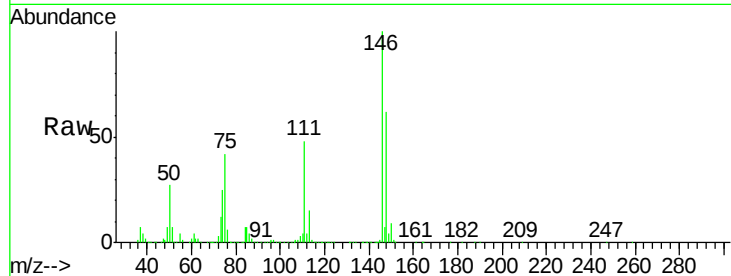
111 48.6 24.3 72.8

148 63.8 31.8 95.3

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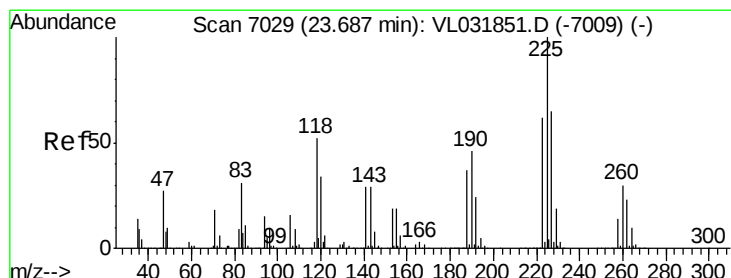
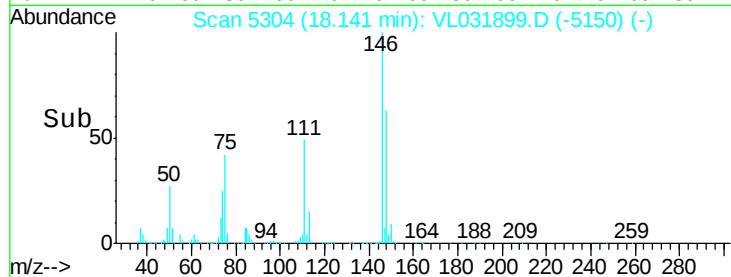
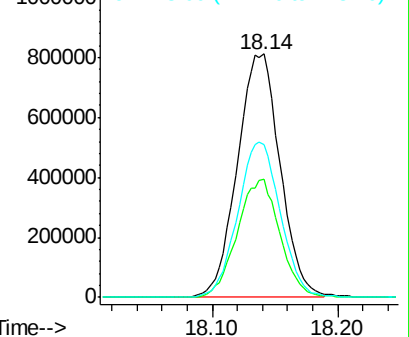
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Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V



#78

Hexachloro-1,3-Butadiene

Concen: 11.98 ppbv

RT: 23.68 min Scan# 7027

Delta R.T. -0.00 min

Lab File: VL031899.D

Acq: 20 Apr 2018 14:32

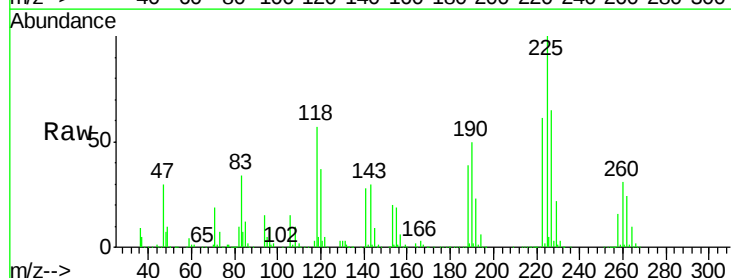
Tgt Ion:225 Resp: 1036943

Ion Ratio Lower Upper

225 100

223 63.7 50.6 76.0

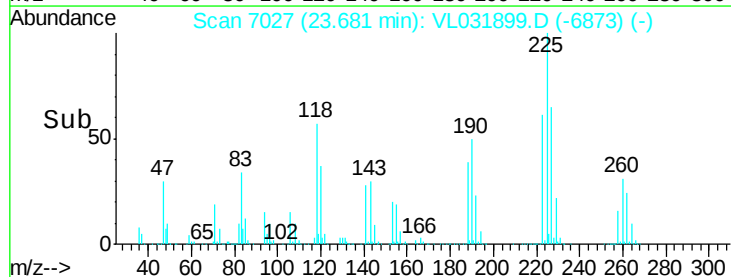
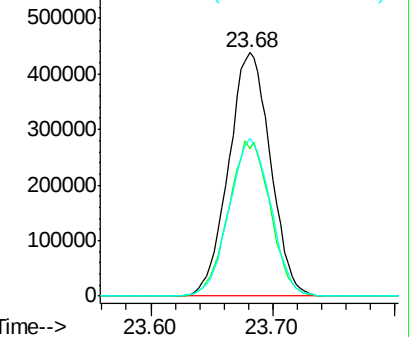
227 64.4 52.2 78.4

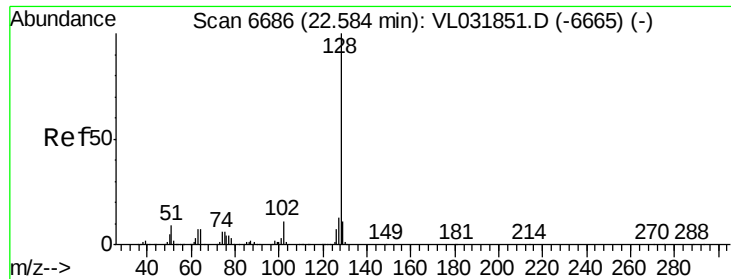


Abundance Ion 224.90 (224.60 to 225.60): V

Ion 222.90 (222.60 to 223.60): V

Ion 226.90 (226.60 to 227.60): V





#79

Naphthalene

Concen: 10.60 ppbv

RT: 22.58 min Scan# 6685

Delta R.T. -0.01 min

Lab File: VL031899.D

Acq: 20 Apr 2018 14:32

Instrument :

MSVOA_L

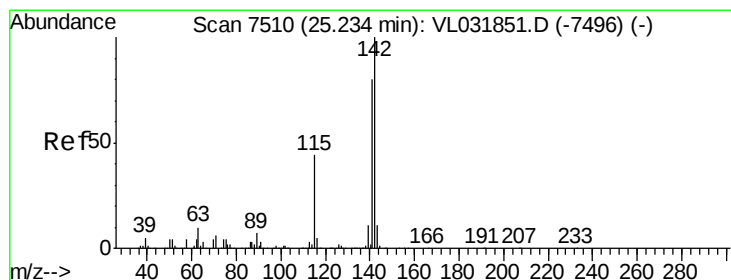
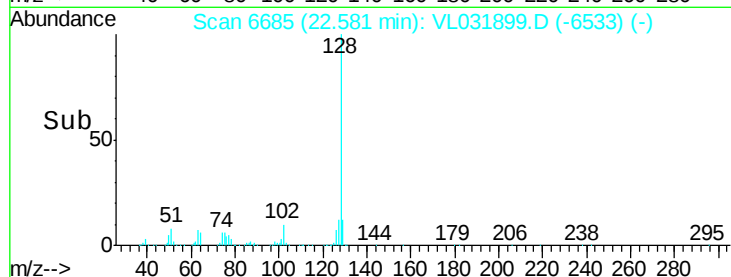
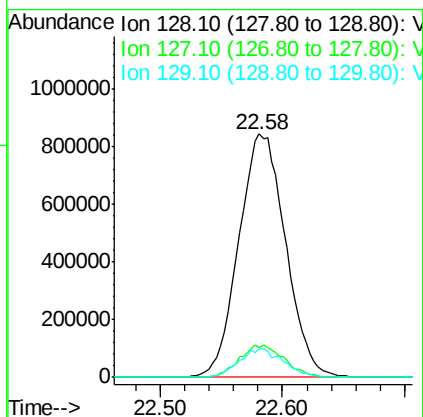
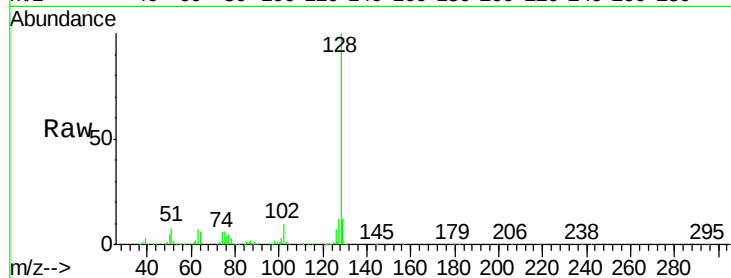
ClientSampleId :

VSTDCCC010EC

Tot Ion:128	Resp: 2227037		
Ion Ratio	Lower	Upper	
128 100			
127 12.3	10.2	15.4	
129 11.6	9.4	14.2	

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#80

Naphthalene, 2-methyl-

Concen: 15.99 ppbv

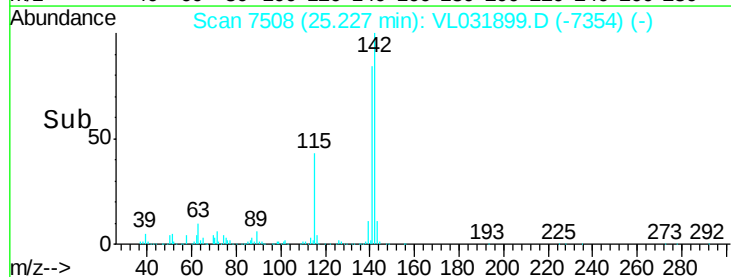
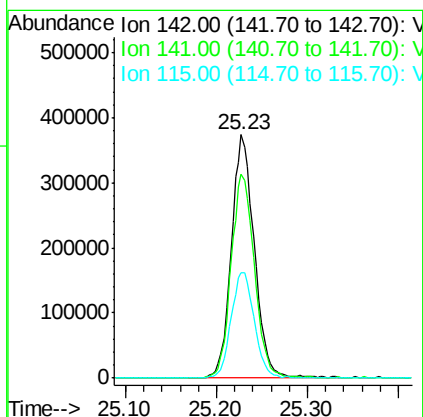
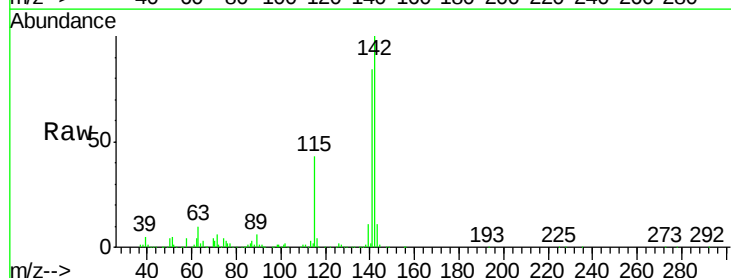
RT: 25.23 min Scan# 7508

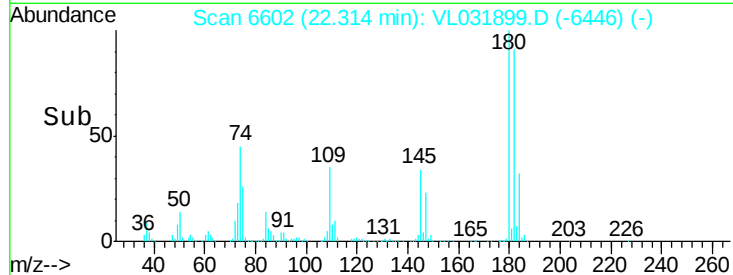
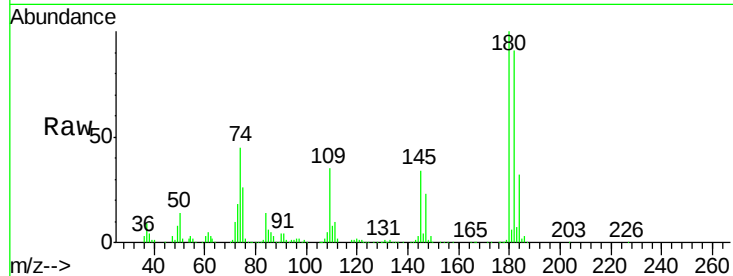
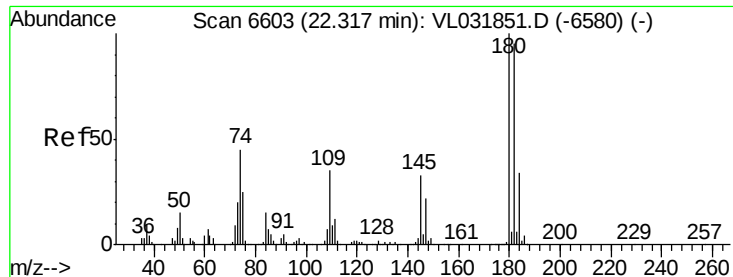
Delta R.T. -0.00 min

Lab File: VL031899.D

Acq: 20 Apr 2018 14:32

Tgt Ion:142	Resp: 655812
Ion Ratio	Lower Upper
142 100	
141 85.4	67.0 100.4
115 44.0	35.3 52.9





#81
 1,2,4-Trichlorobenzene
 Concen: 9.45 ppbv
 RT: 22.31 min Scan# 6602
 Delta R.T. 0.00 min
 Lab File: VL031899.D
 Acq: 20 Apr 2018 14:32

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion:180	Resp: 1101672
Ion Ratio	Lower Upper
180 100	
182 95.5	76.3 114.5
184 30.7	24.2 36.2

Manual Integrations
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